HCD-GRX40AV/RXD6AV

SERVICE MANUAL

AEP Model
UK Model
HCD-RXD6AV
E Model
Australian Model
HCD-GRX40AV

Photo : HCD-RXD6AV

HCD-GRX40AV/RXD6AV is the Amplifier, CD player, Tape Deck and Tuner section in MHC-GRX40AV/RXD6AV.

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CD Section	Model Name Using Similar Mechanism	HCD-RXD3
	CD Mechanism Type	CX3
	Base Unit Name	KSM-213ECM
	Optical Pick-up Name	KSS-213ECM/C2NP
Tape deck Section	Model Name Using Similar Mechanism	HCD-RXD3
	Tape Transport Mechanism Type	CWL-44-RR

SPECIFICATIONS

Amplifier section

MHC-RXD6AV (European model):

Front Speaker :
DIN power output (rated) 50 + 50 W
(6 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
60 + 60 W
(6 Ω at 1 kHz, 10% THD)
Music power output (reference)
100 + 100 W
(6 Ω at 1 kHz, 10% THD)

Center Surround Speaker :
DIN power output (rated) 25 W
(12 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
30 W
(12 Ω at 1 kHz, 10% THD)
Music power output (reference)
50 W
(12 Ω at 1 kHz, 10% THD)

Rear Surround Speaker :
DIN power output (rated) 12.5 + 12.5 W
(6 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
15 + 15 W
(6 Ω at 1 kHz, 10% THD)
Music power output (reference)
25 + 25 W
(6 Ω at 1 kHz, 10% THD)

MHC-GRX40AV (Other model):
The following measured at AC 120, 240 V, 50/60 Hz

Front Speaker :
DIN power output (rated) 60 + 60 W
(6 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
70 + 70 W
(6 Ω at 1 kHz, 10% THD)

Center Surround Speaker :
DIN power output (rated) 25 W
(12 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
30 W
(12 Ω at 1 kHz, 10% THD)

Rear Surround Speaker :
DIN power output (rated) 12.5 + 12.5 W
(6 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
15 + 15 W
(6 Ω at 1 kHz, 10% THD)

Inputs
MD/VIDEO IN : voltage 450 mV/250 mV
(phono jacks) inpedance 47 kΩ

Outputs
MD/VIDEO OUT : voltage 250 mV
(phono jacks) impedance 1 kΩ
PHONES : accepts headphones of 8 Ω or
(stereo phone jack) more
FRONT SPEAKER : accepts impedance of 6 to 16 Ω
REAR SPEAKER : accepts impedance of 6 to 16 Ω
CENTER SPEAKER : accepts impedance of 12 to 16 Ω
SUPER WOOFER : Voltage 1 V, impedance 1 kΩ

CD player section

System: Compact disc and digital audio system
Laser: Semiconductor laser (λ=780nm)
Emission duration: continuous
Laser output: Max. 44.6 µW*
*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response: 20 Hz - 20 kHz (±0.5 dB)
Wavelength: 780 -790 nm
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 90 dB

— Continued on next page —

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

CD DIGITAL OUT
(Square optical connector jack, rear panel)

Wavelength	600 nm
Output Level	–18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	60 - 13,000 Hz (±3 dB), using Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 Ω unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	531 - 1,602 kHz (with the interval set at 9 kHz) 530 - 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
European model:	230 V AC, 50/60 Hz
Australian and South African models:	240 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Power consumption	190 W
Dimensions (w/h/d)	Approx. 280 × 340 × 390 mm ($11^{1}/_{8} \times 13^{1}/_{2} \times 15^{3}/_{8}$ in.)
Mass:	Approx. 9.2 kg (20 lb 5 oz.)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

SECTION 2
GENARAL

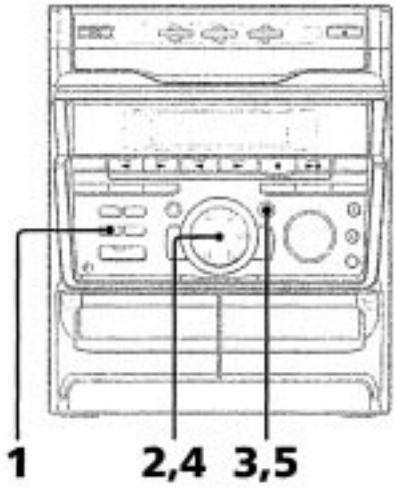
1 I/⏻ (Power) button and indicator
2 DISC 1 to 3 button and indicators
3 DISC SKIP button
4 ⏏ (CD) button
5 CD disc tray
6 ■ button
7 CD, ►II button and indicator
8 TUNER/BAND button
9 FILE SELECT button
10 DBFB button
11 DSP button
12 ⏏ (deck B)
13 Tape deck B
14 Tape deck A
15 ⏏ (deck A)
16 DOLBY PRO LOGIC button
17 PHONES jack
18 REPEAT, STEREO/MONO button
19 PLAY MODE, TUNER MEMORY button
20 EDIT DIRECTION button
21 FUNCTION button
22 TAPE A, ◄ and ► buttons and indications
23 TAPE B, ◄ and ► buttons and indications

24 Fluorescent indicator tube
25 ENTER/NEXT button and indicator
26 REC button and indicator
27 PAUSE button
28 CD SYNC button
29 VOLUME knob
30 +, ►► button and indicator
31 JOG dial
32 –, ◄◄ button and indicator
33 TIMER SELECT button and indicator
34 CLOCK/TIMER SET button
35 DISPLAY button
36 DEMO button
37 GROOVE button and indicator
38 Remote sensor

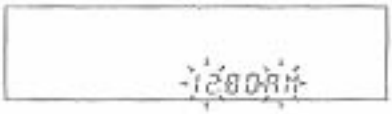
This section is extracted from instruction manual.

Step 3: Setting the time

You must set the time before using the timer functions.
The clock is on a 24-hour system for the European and Russian models, and a 12-hour system for other models.
The 12-hour system model is used for illustration purposes.

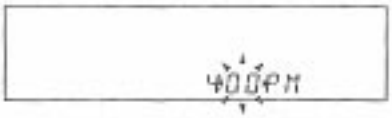


1 Press CLOCK/TIMER SET.
The hour indication flashes.



2 Turn the jog dial to set the hour.

3 Press ENTER/NEXT.
The minute indication flashes.



4 Turn the jog dial to set the minute.

5 Press ENTER/NEXT.
The clock starts working.

Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode. If you want to display the demo mode, press DEMO when the system is off.

Note

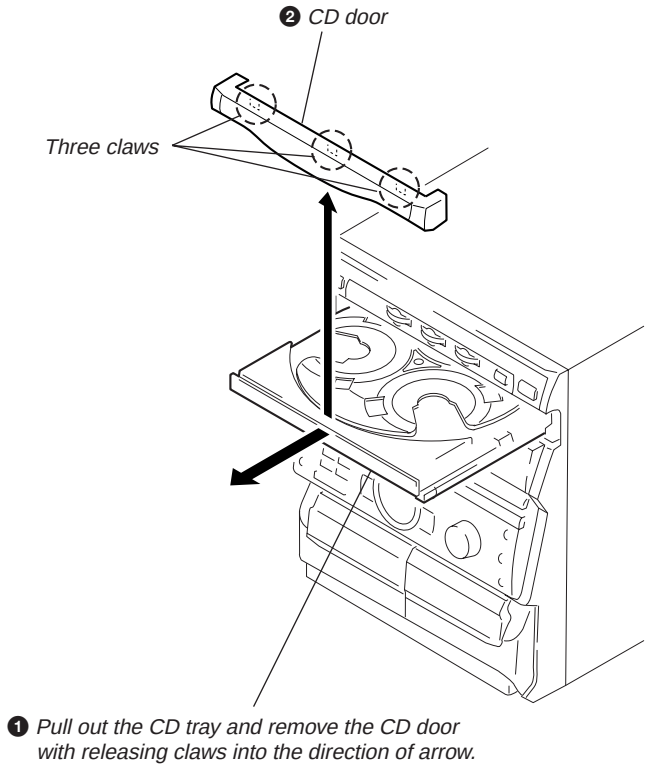
The previous explanation shows you how to set the time while the system is off. To change the time while the system is on, do the following:

1 Press CLOCK/TIMER SET.
2 Turn the jog dial to select "SET CLOCK".
3 Press ENTER/NEXT.
4 Perform steps 2 through 5 above.

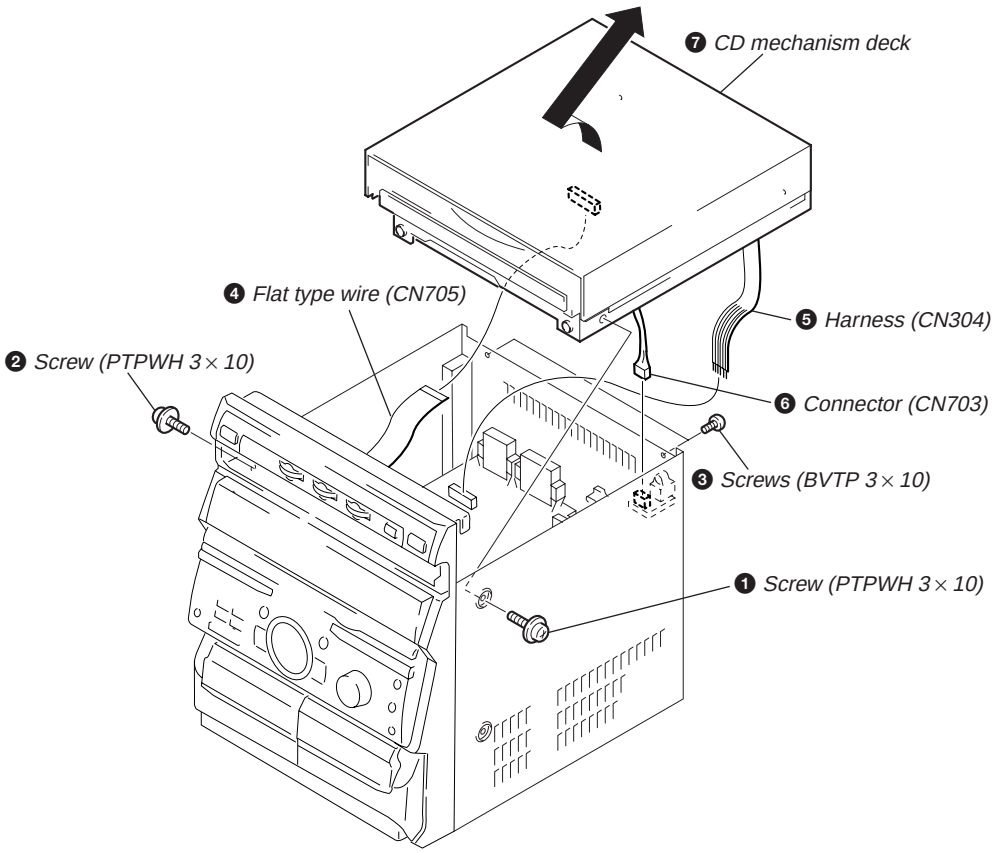
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

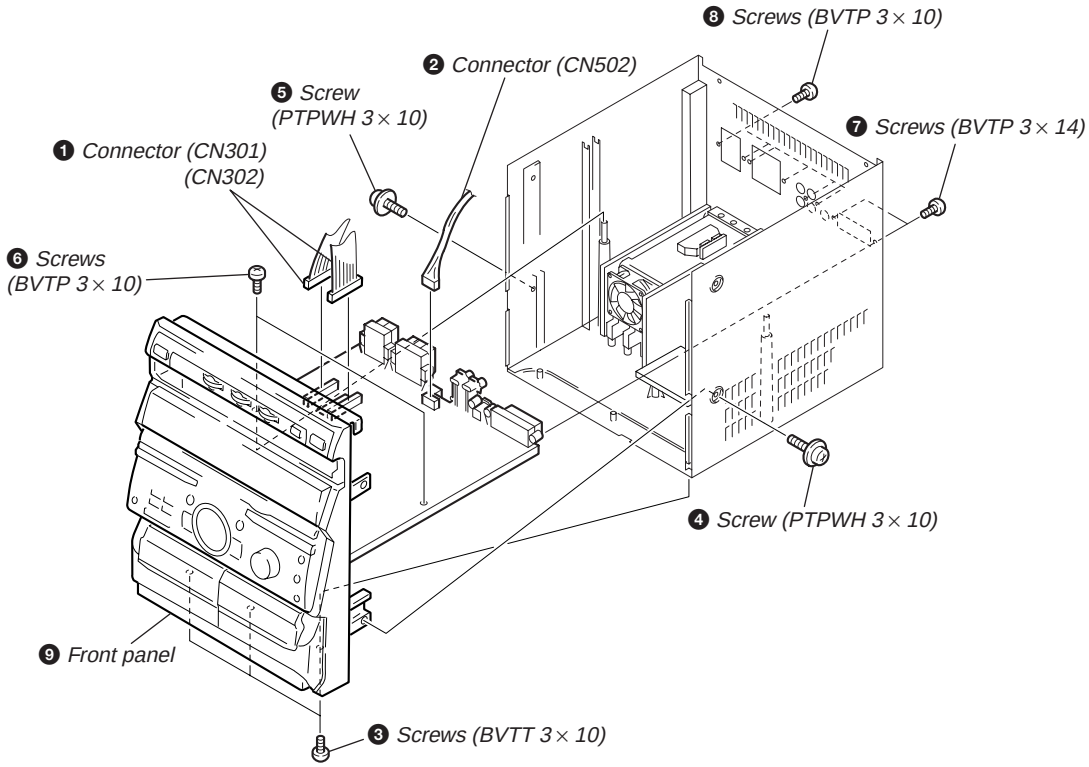
3-1. CD DOOR



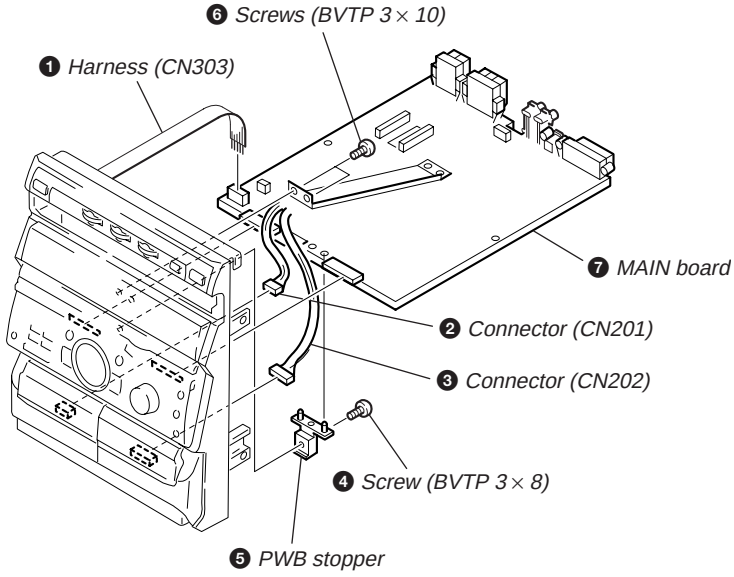
3-2. CD MECHANISM DECK


❼ CD mechanism deck
❹ Flat type wire (CN705)
❺ Harness (CN304)
❷ Screw (PTPWH 3× 10)
❻ Connector (CN703)
❸ Screws (BVTP 3× 10)
❶ Screw (PTPWH 3× 10)

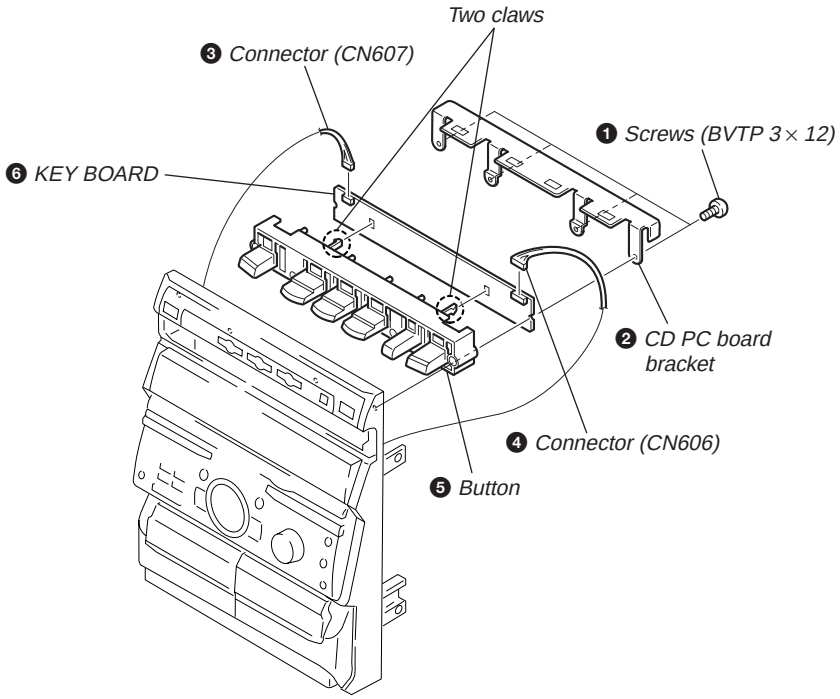
3-3. FRONT PANEL


❽ Screws (BVTP 3 × 10)
❷ Connector (CN502)
❺ Screw (PTPWH 3 × 10)
❼ Screws (BVTP 3 × 14)
❶ Connector (CN301) (CN302)
❻ Screws (BVTP 3 × 10)
❹ Screw (PTPWH 3 × 10)
❾ Front panel
❸ Screws (BVTT 3 × 10)

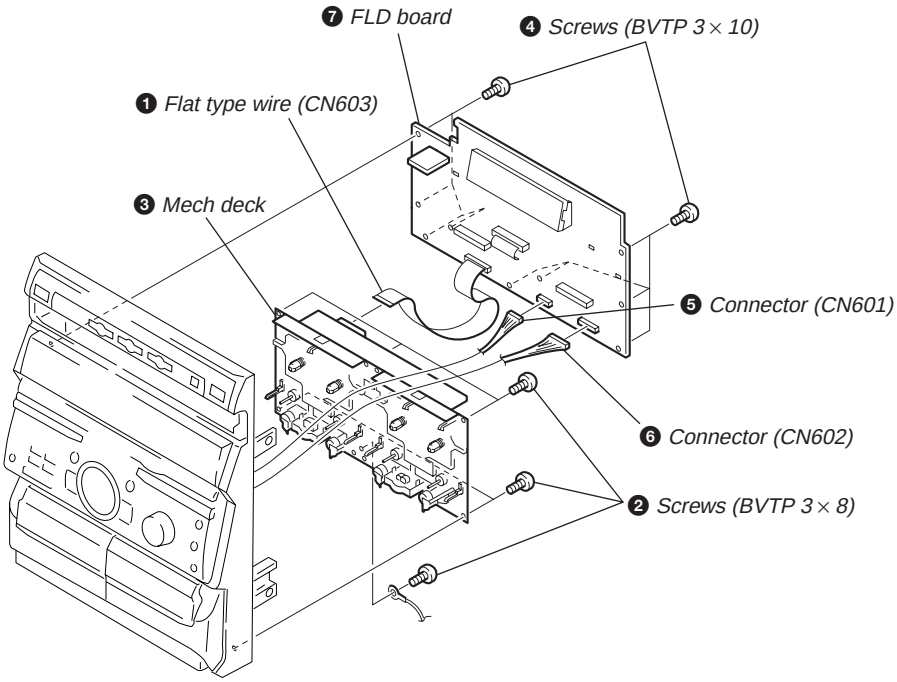
3-4. MAIN BOARD



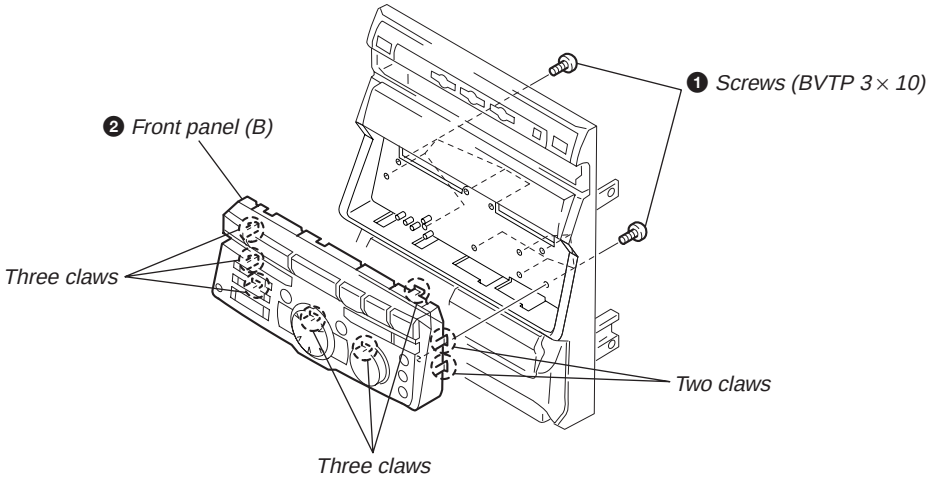
3-5. KEY BOARD



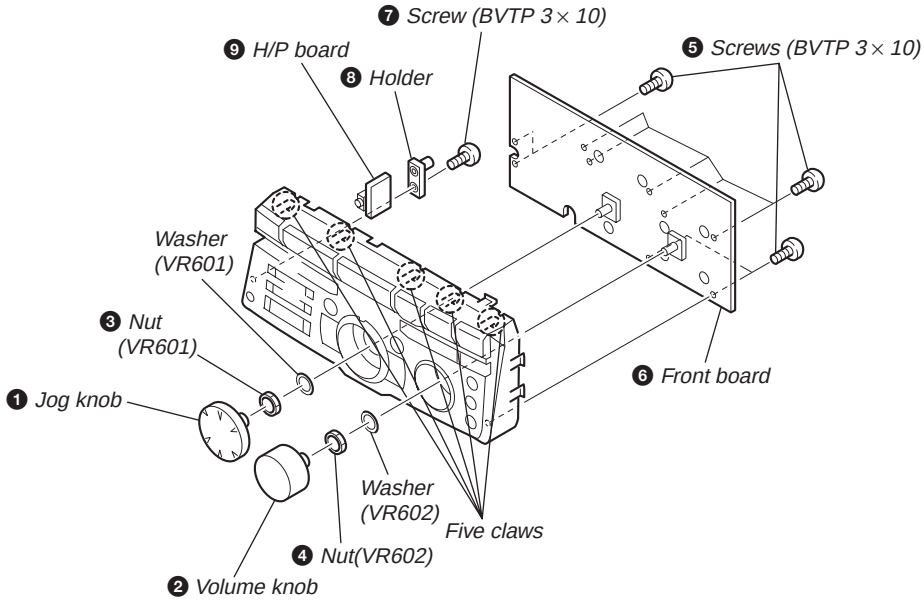
3-6. MECH DECK, FLD BOARD



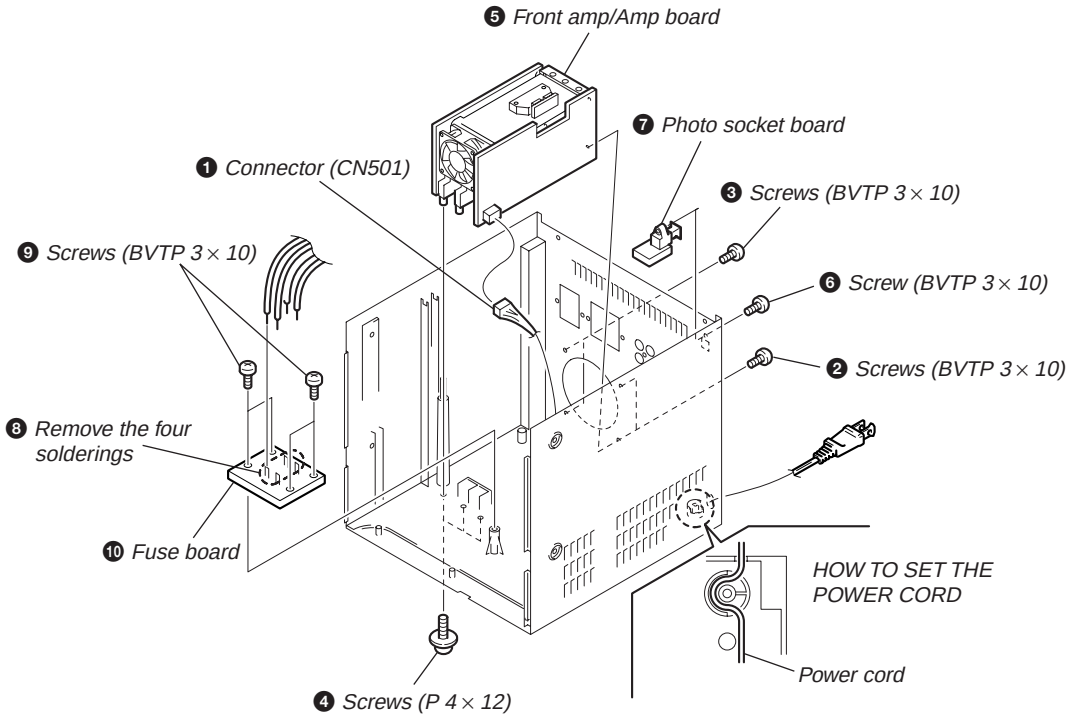
3-7. FRONT PANEL (B)



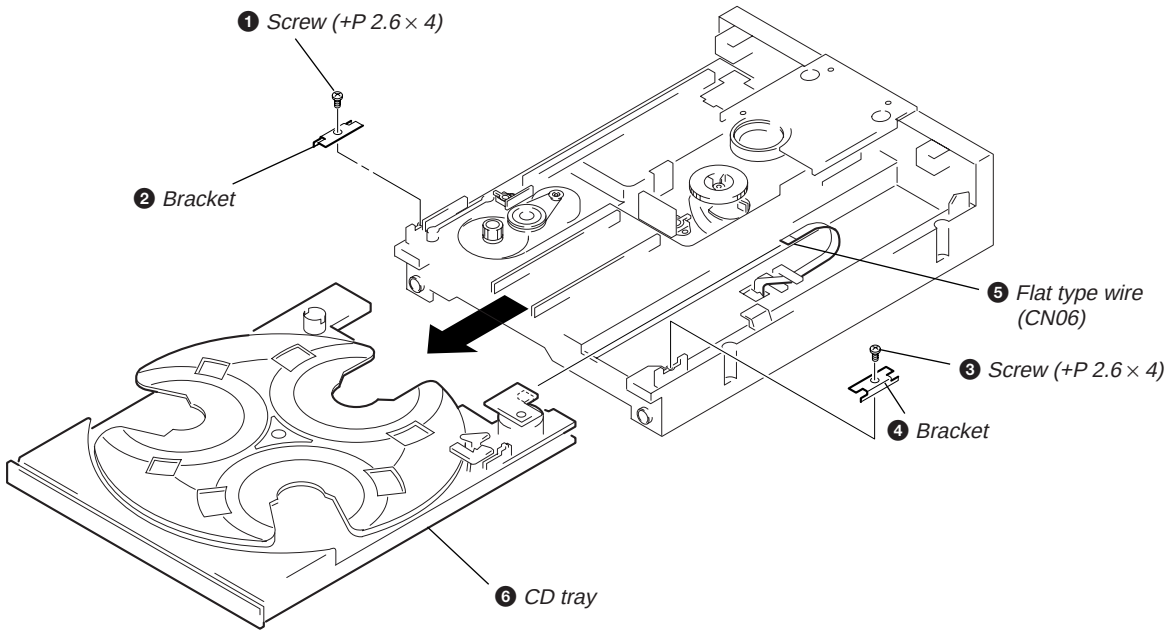
3-8. FRONT BOARD, H/P BOARD



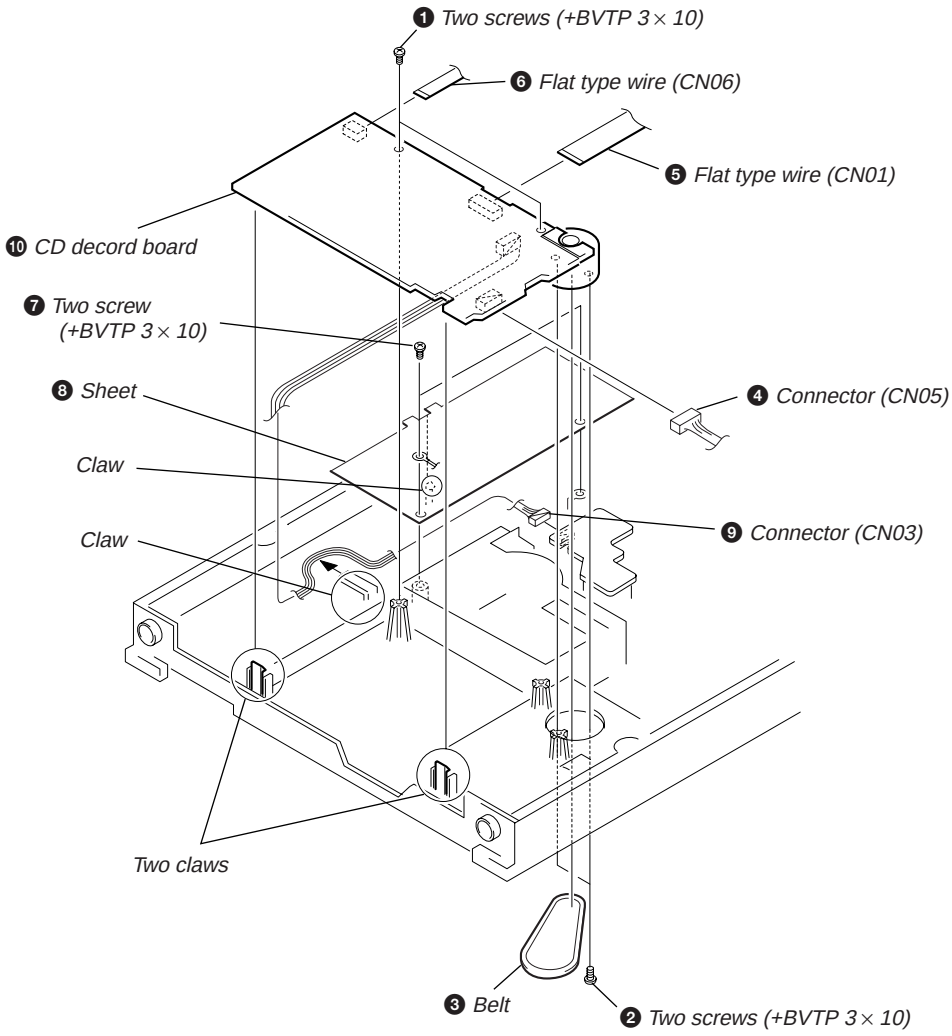
3-9. FRONT AMP BOARD, AMP BOARD, PHOTO SOCKET BOARD, FUSE BOARD


❺ Front amp/Amp board
❼ Photo socket board
❶ Connector (CN501)
❸ Screws (BVTP 3 × 10)
❾ Screws (BVTP 3 × 10)
❻ Screw (BVTP 3 × 10)
❷ Screws (BVTP 3 × 10)
❽ Remove the four solderings
❿ Fuse board
HOW TO SET THE POWER CORD
Power cord
❹ Screws (P 4 × 12)

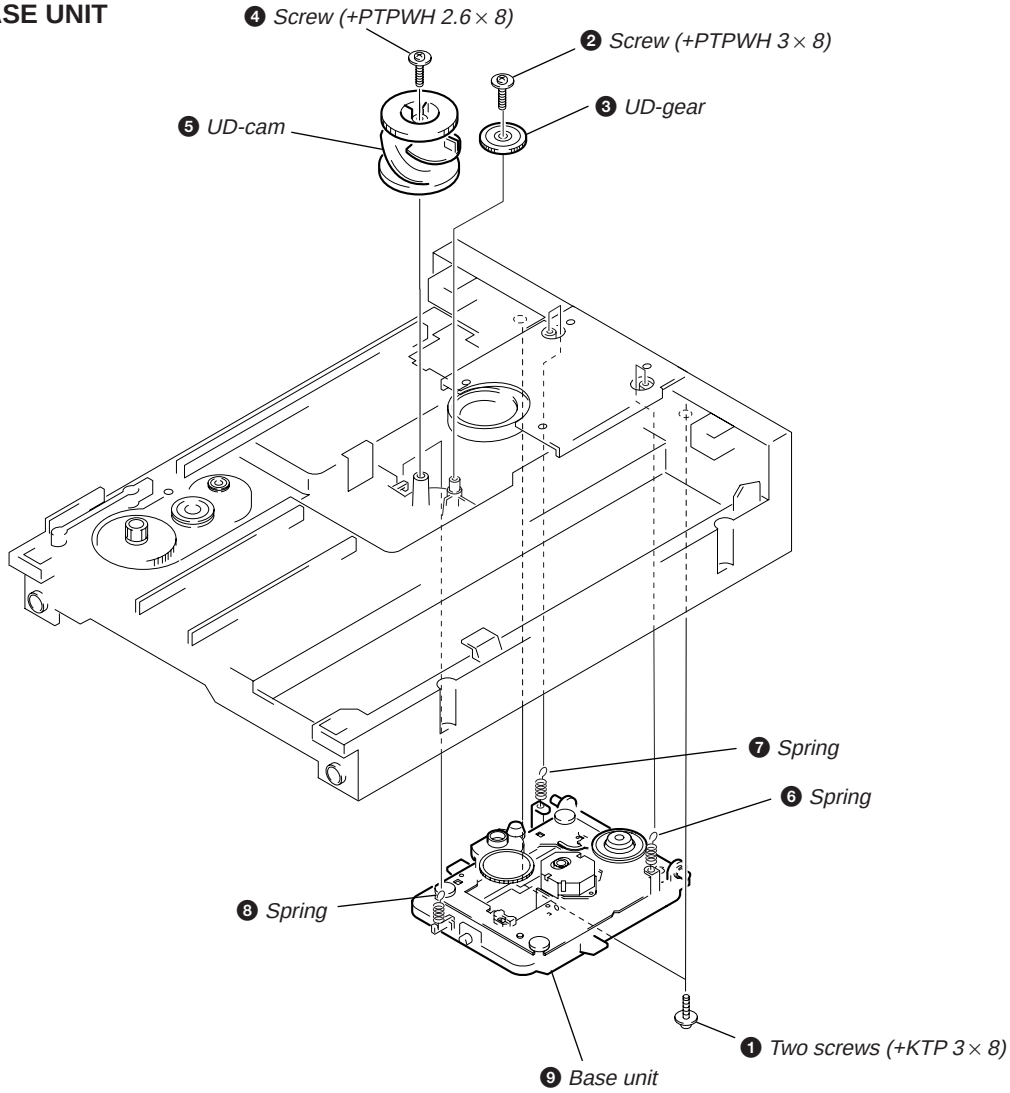
3-10. CD TRAY



3-11. CD DECORD BOARD

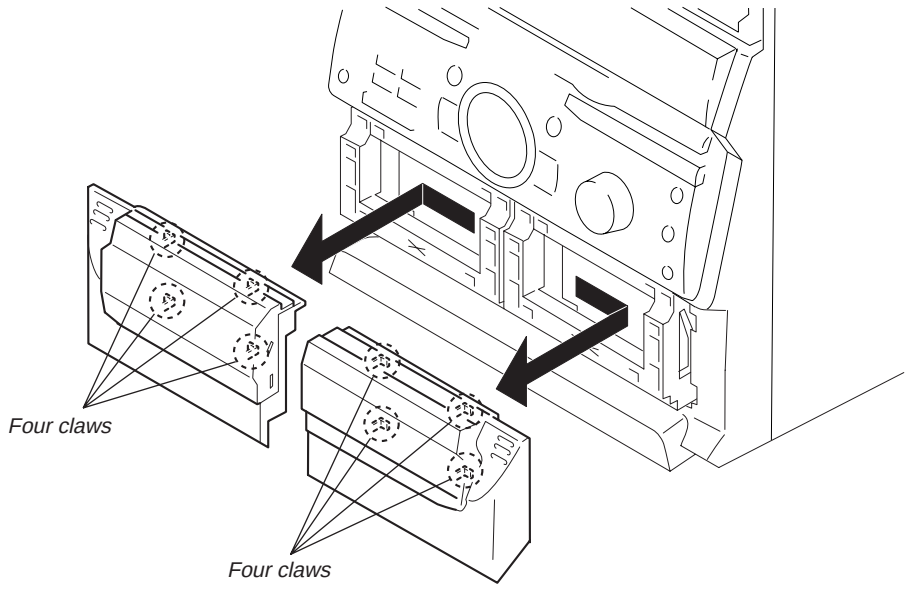


3-12. BASE UNIT



3-13. CASSETTE LID (A)/(B)

❶ Remove the cassette lids in the direction of arrow.



SECTION 4
TEST MODE

Initialization
Press the STOP button and POWER OFF button at the same time.
All preset data is re-set to the initial (default) value.

Model display
Press the STOP button and DISC 1 button at the same time.
Model name is displayed.

Destination display
Press the STOP button and DISC 2 button at the same time.
Destination is displayed.

Version display
Press the STOP button and DISC 3 button at the same time.
Version number of the microprocessor is displayed.

CD aging mode
Press the STOP button and DISC SKIP/EX-CHANGE button at the same time.
Set discs to DISC 1 and DISC 3. The following operations are repeated when aging
starts:
1. DISC 1: TOC Read
2. Plays back the last music of the DISC 1
3. DISC 3 : TOC Read
4. Plays back the last music of the DISC 3.
5. STOP
6. Tray is open and closed.

TAPE aging mode
Press the STOP button and PLAY A button at the same time.
Insert a commercially available cassette tape (10 min) to the decks A and B. When aging starts, each tape is rewound and the following **operations are repeated:**
1. TAPE A: FWD PLAY for one minute
2. TAPE A: FWD STOP for one second
3. TAPE A: FWD PLAY for three minutes
4. TAPE A: FWD FF to tape end
5. TAPE B: FWD PLAY for one minute
6. TAPE B: FWD REC PAUSE for one second
7. TAPE B: FWD REC for three minutes
8. TAPE B: FWD FF to tape end
9. TAPE B: REV PLAY for one minute
10. TAPE B: REV REC PAUSE for one second
11. TAPE B: REV REC for three minutes
12. TAPE B: REV FF to tape end.

CD service mode
Press the STOP button and OPEN/CLOSE button at the same time.
The message “CD S - -” is displayed on the screen. The sled is moved to the outer circumference while the FF button is pressed. Also, the SLED is moved to the inner circumference while the REW button is pressed. After pressing the PLAY button, FOCUS is turned ON, CLV-S is set, TRACKING and SLED servos are turned OFF and ADDRESS 3 = 3F, 37 is set.

Display
Press the STOP button and DBFB button at the same time.
All displays are turned ON.

Balance adjustment value
Press the STOP button and DISPLAY button at the same time.
The balance adjustment value is displayed.

Key check
Press the STOP button and FILE SELECT button at the same time.
Function of the pressed key is displayed.

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback head — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	40 to 70 g • cm (0.56 - 0.97 oz • inch)
FWD back tension	CQ-102C	1 to 5 g • cm (0.01 - 0.07 oz • inch)
FF/REW	CQ-201B	55 to 140 g • cm (0.76 - 1.94 oz • inch)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

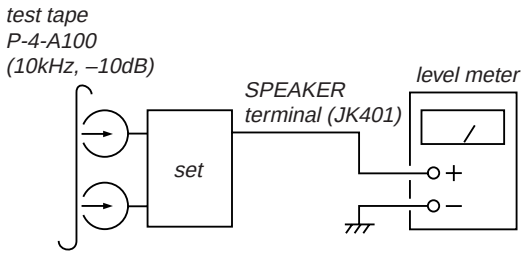
Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

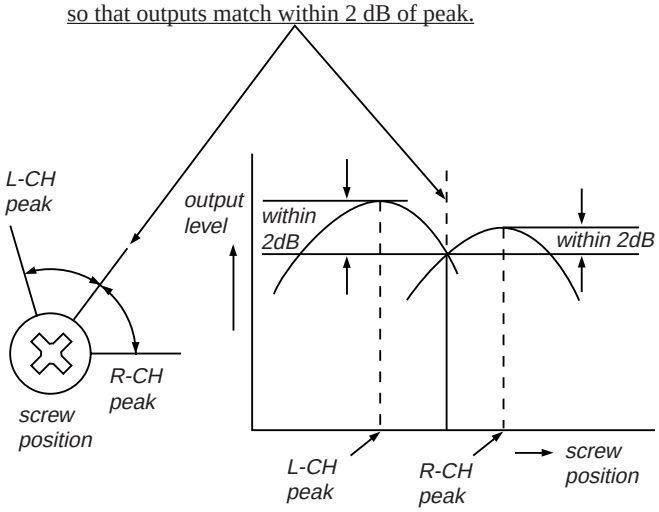
Note: Perform this adjustments for both decks.

Procedure:

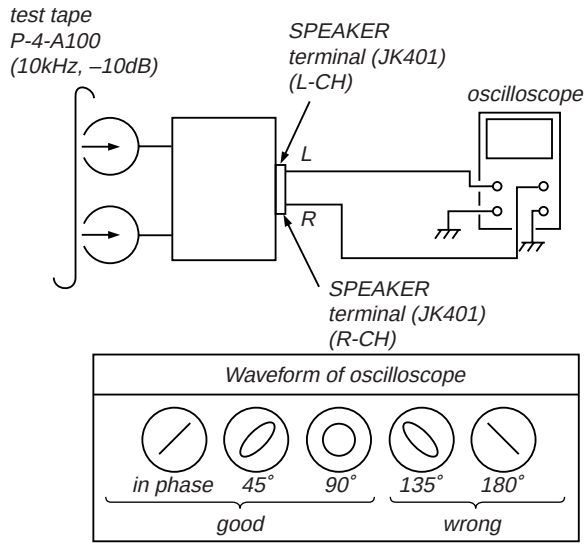
1. Mode : Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 2 dB of peak.

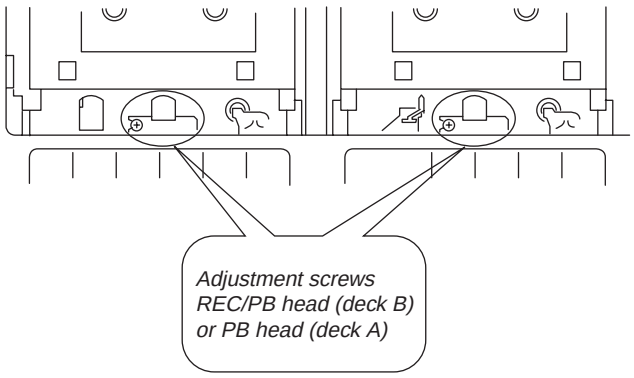


3. Mode: Playback



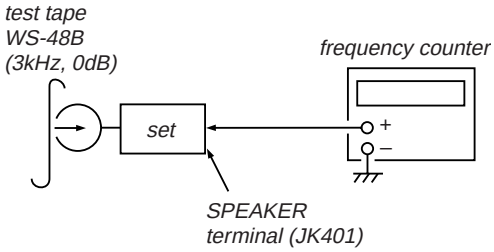
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:
Remove the cassette lid before adjustment (See page 9)



Tape Speed Adjustment (Deck A)

Procedure:
1. Mode: Playback

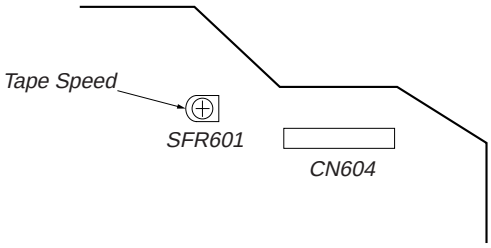


2. Adjust the SFR601 so that the frequency counter reads 3,000 Hz ± 90Hz.

Adjustment Location: MAIN board

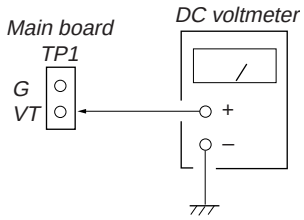
Sample Value of Wow and flutter
W. RMS (JIS) within 0.3%
(test tape: WS-48B)

[FLD BOARD] — Component side —



TUNER SECTION **0 dB=1μV**

AM Tuning Voltage Adjustment

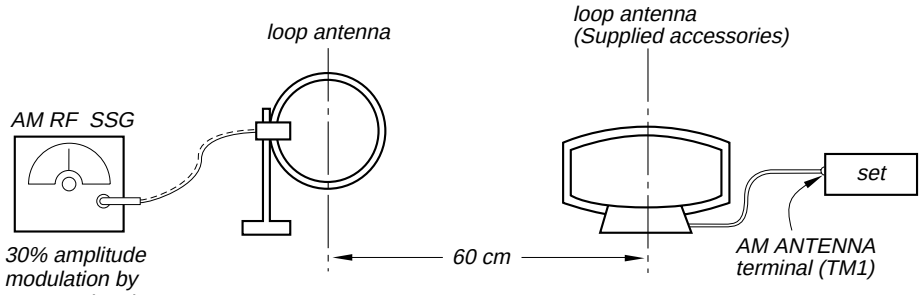


Procedure:

1. Set the reception frequency of the unit to 530 kHz.
2. Adjust L107 for 1.2 ± 0.05 V reading on the DC voltmeter.
3. Set the reception frequency of the unit to 1,710 kHz.
4. Confirm that the voltage reading on the DC voltmeter is within 8.0 ± 0.5 V.

Adjustment Location: MAIN board (See page 17)

AM Tracking Adjustment



Field strength dB (μV/m) =SSG output level dB (μV/m) –26 dB.

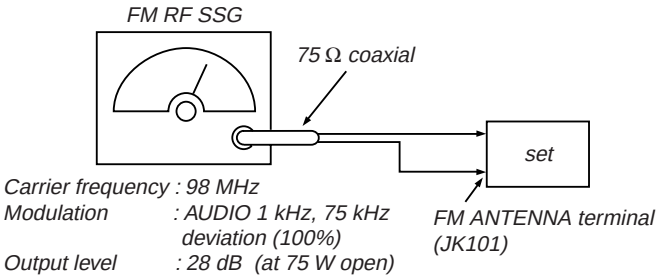
Procedure:

1. Tune the set to 600 kHz.
2. Set the output of AM RF SSG so that the input level of the set will become 60 dB (μV/m).
3. Adjust L104 so that when the waveform on the oscilloscope is maximum, no noise appears.
4. Tune the set to 1,400 kHz.
5. Adjust TC101 so that when the waveform on the oscilloscope is maximum, no noise appears.

- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location: MAIN board (See page 17)

FM Tuned Level Adjustment


FM RF SSG
75 Ω coaxial
set
Carrier frequency : 98 MHz
Modulation : AUDIO 1 kHz, 75 kHz deviation (100%)
Output level : 28 dB (at 75 W open)
FM ANTENNA terminal (JK101)

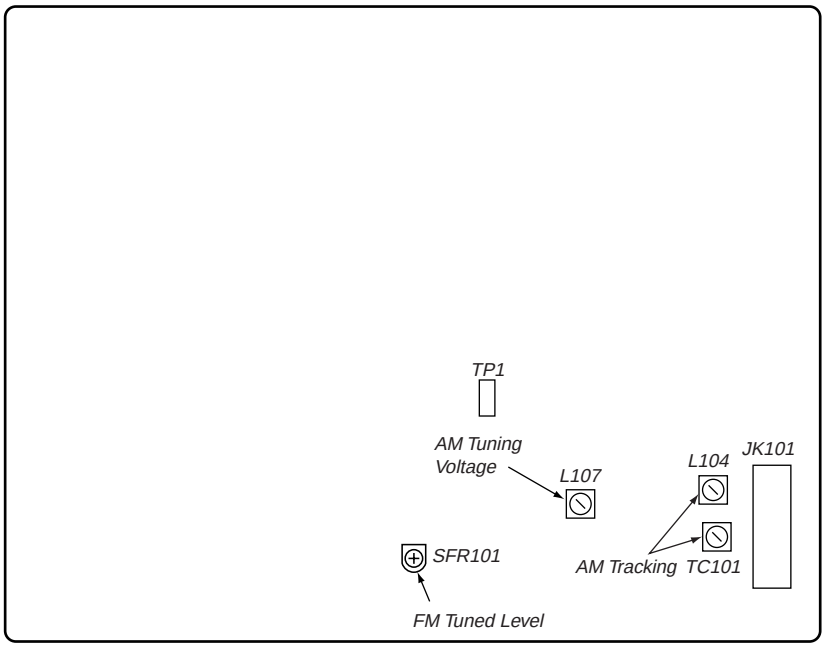
Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust SFR101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] Component side

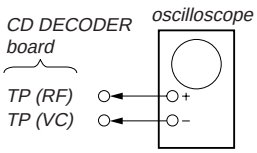


CD SECTION

Note:

1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

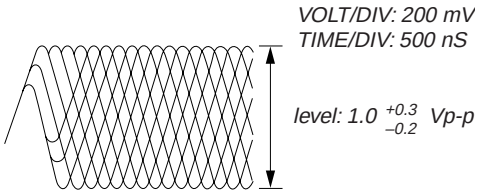
RF Level Check



Procedure :

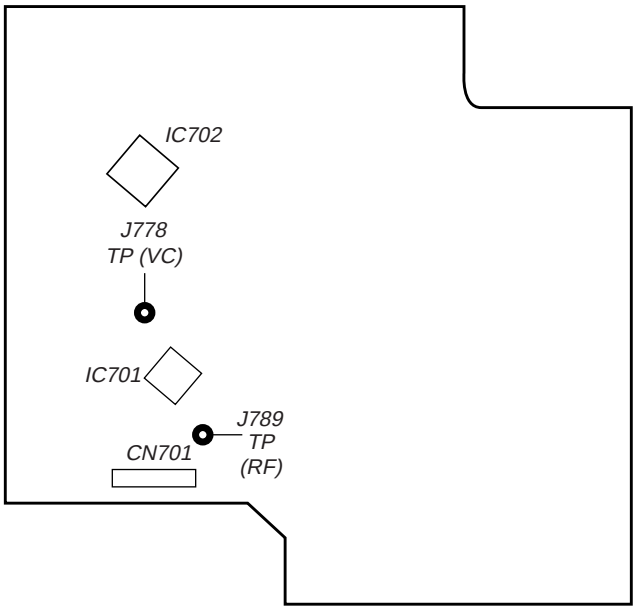
1. Connect oscilloscope to test point TP (RF) on CD DECODER board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.



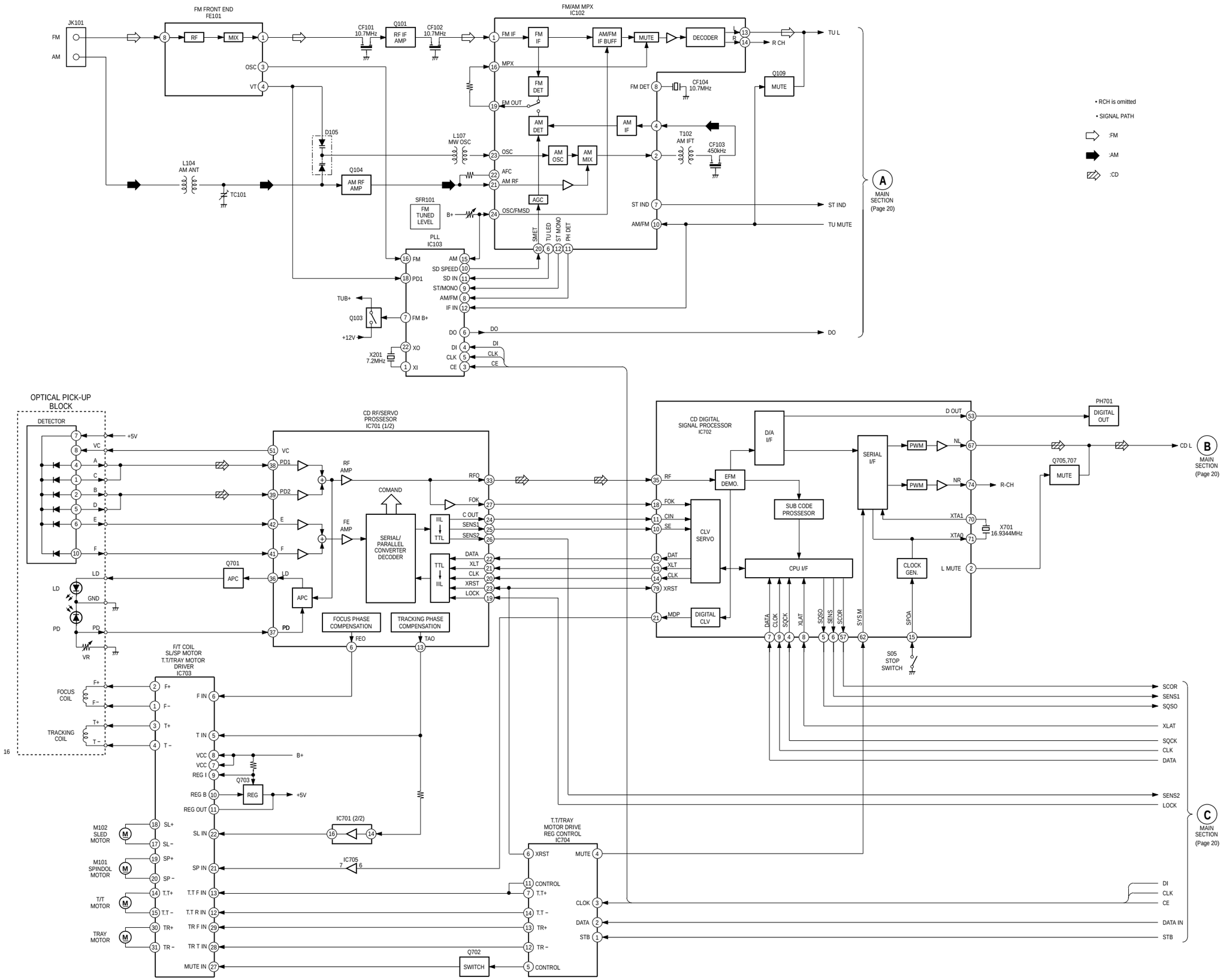
Adjustment Location:

[CD DECODER BOARD] Component side

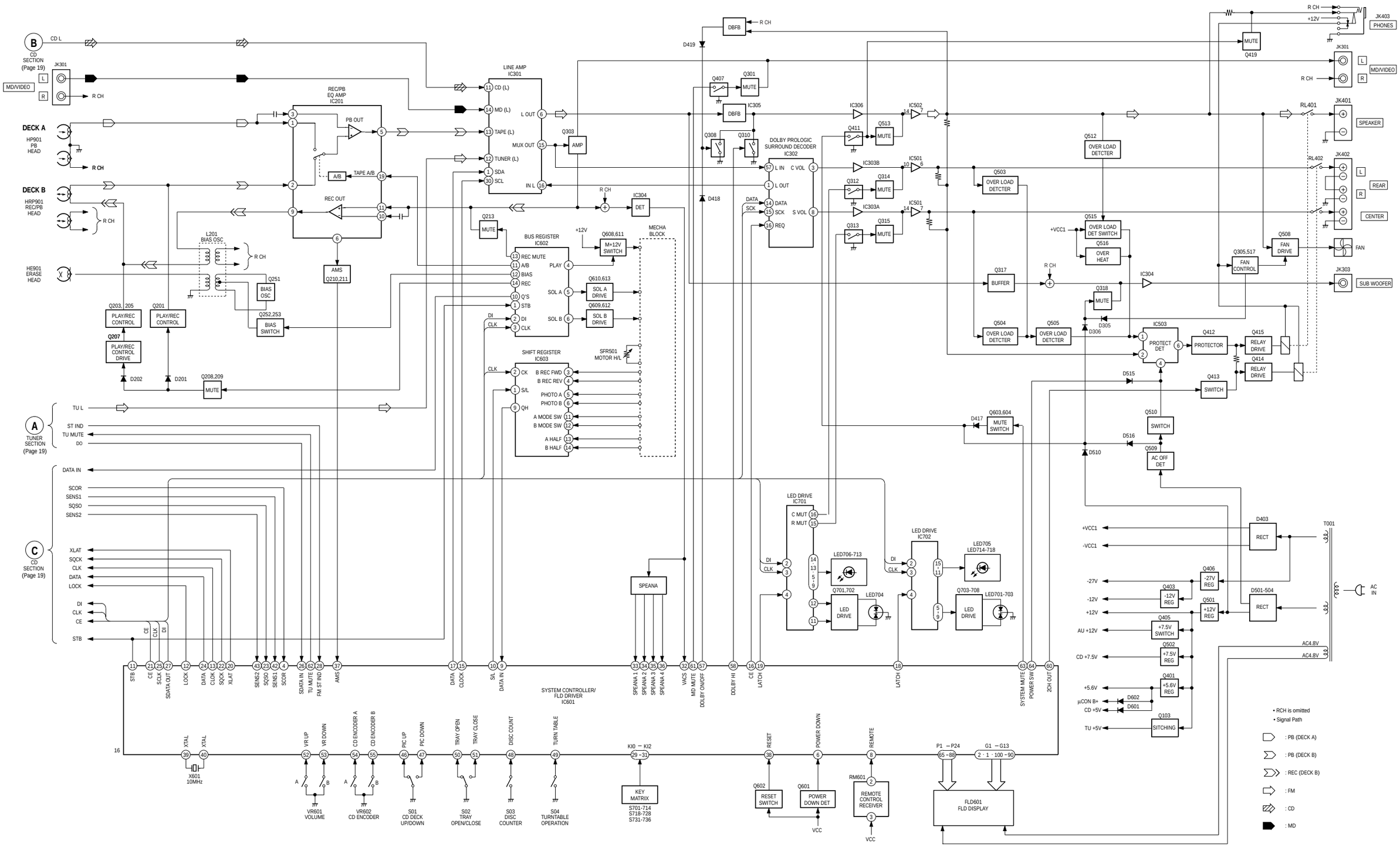


SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAMS
TUNER/CD SECTION



MAIN SECTION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : PB (DECK A)
  - ⇨ : PB (DECK B)
  - ⇨ : REC (DECK B)
  - ⇨ : CD
  - ⇨ : digital out
  - ➡ : MD
- Abbreviation
  - MX : Mexican model
  - SA : South American model
  - AUS : Australian model
  - G : German model
  - AED : North European model

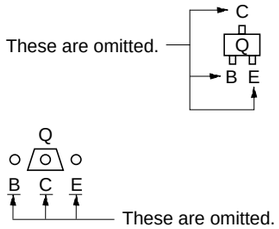
Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- ▒ : Pattern from the side which enables seeing.

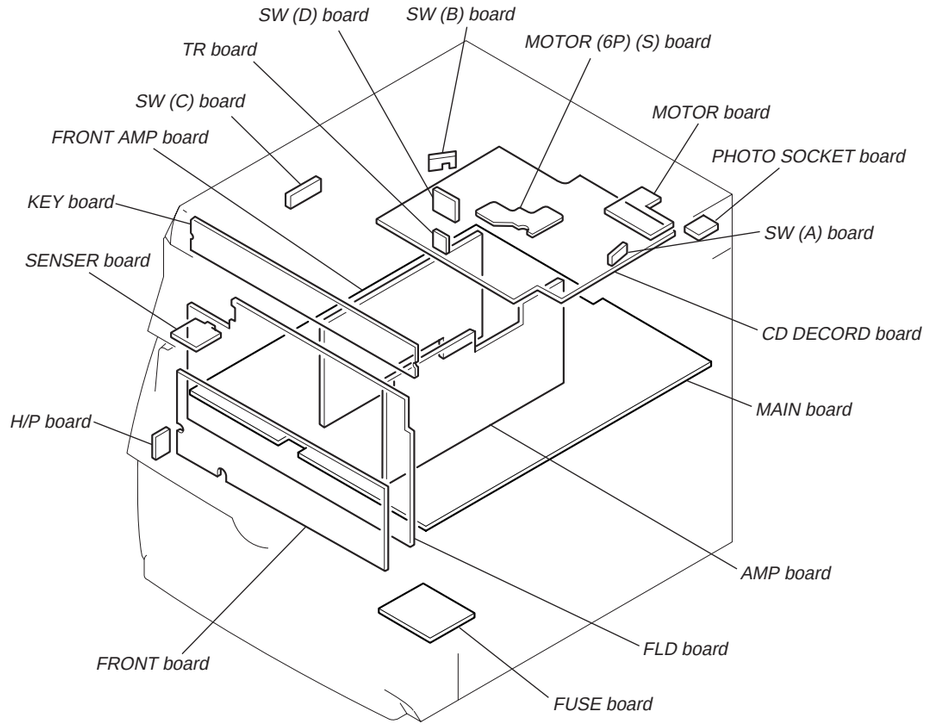
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.

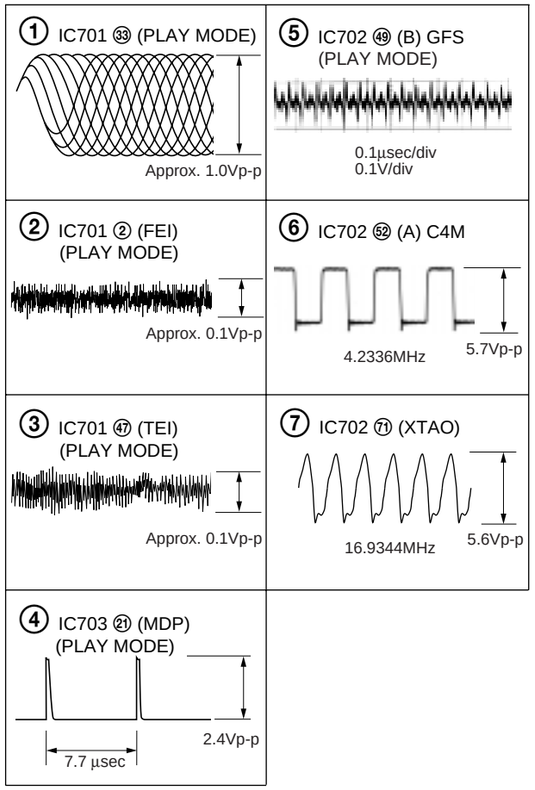


7-2. CIRCUIT BOARD LOCATION

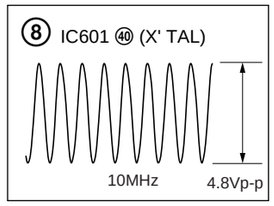


• WAVEFORM

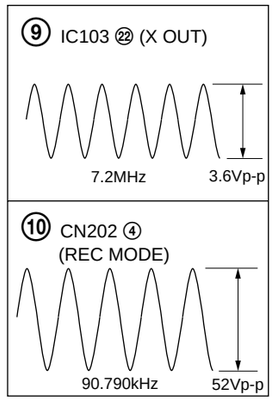
CD DECODER SECTION



FLD SECTION



MAIN SECTION



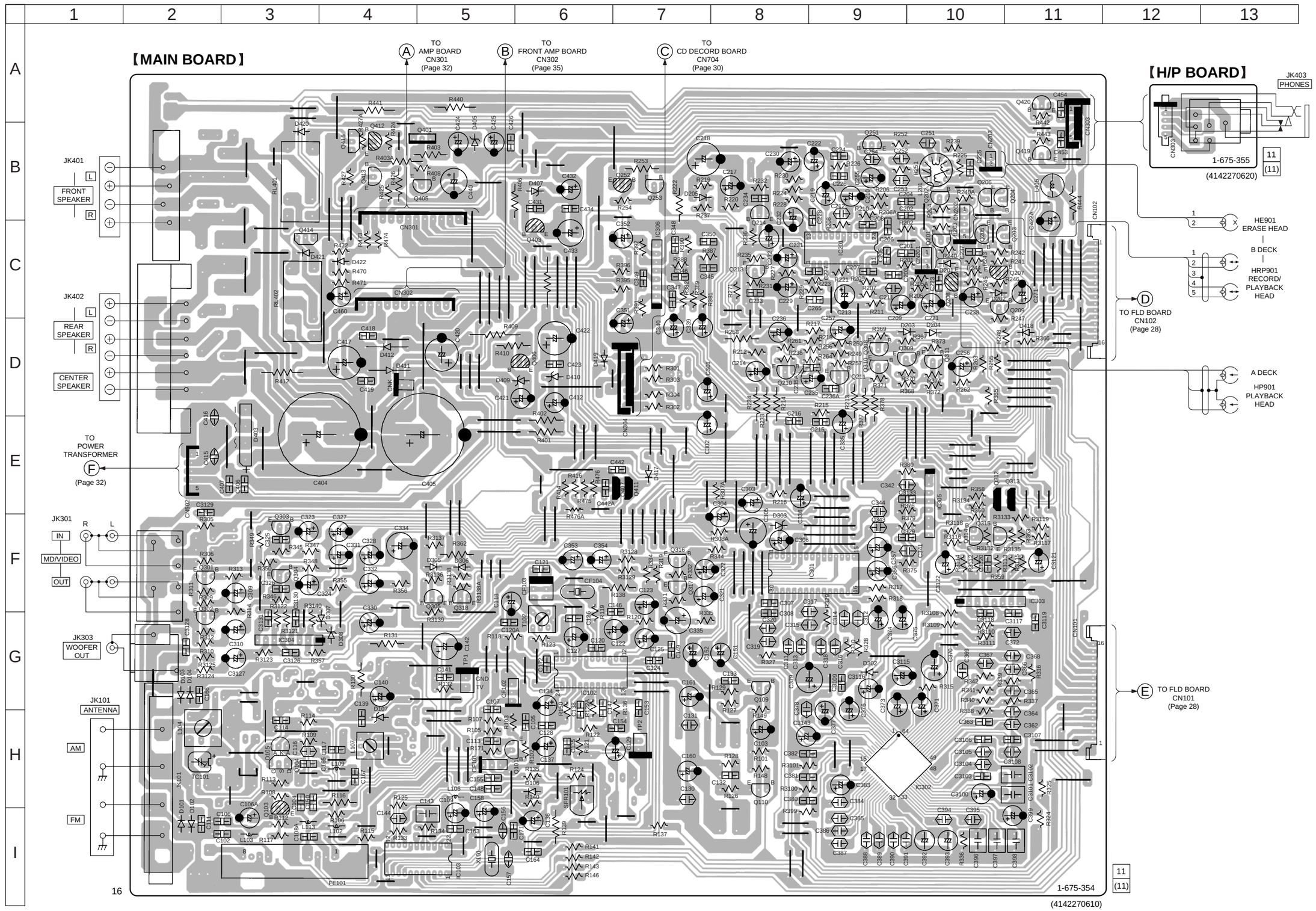
21

7-3. PRINTED WIRING BOARD MAIN SECTION

• Refer to page 21 for Circuit Boards Location. • Refer to page 21 for Note on Printed Wiring Boards.

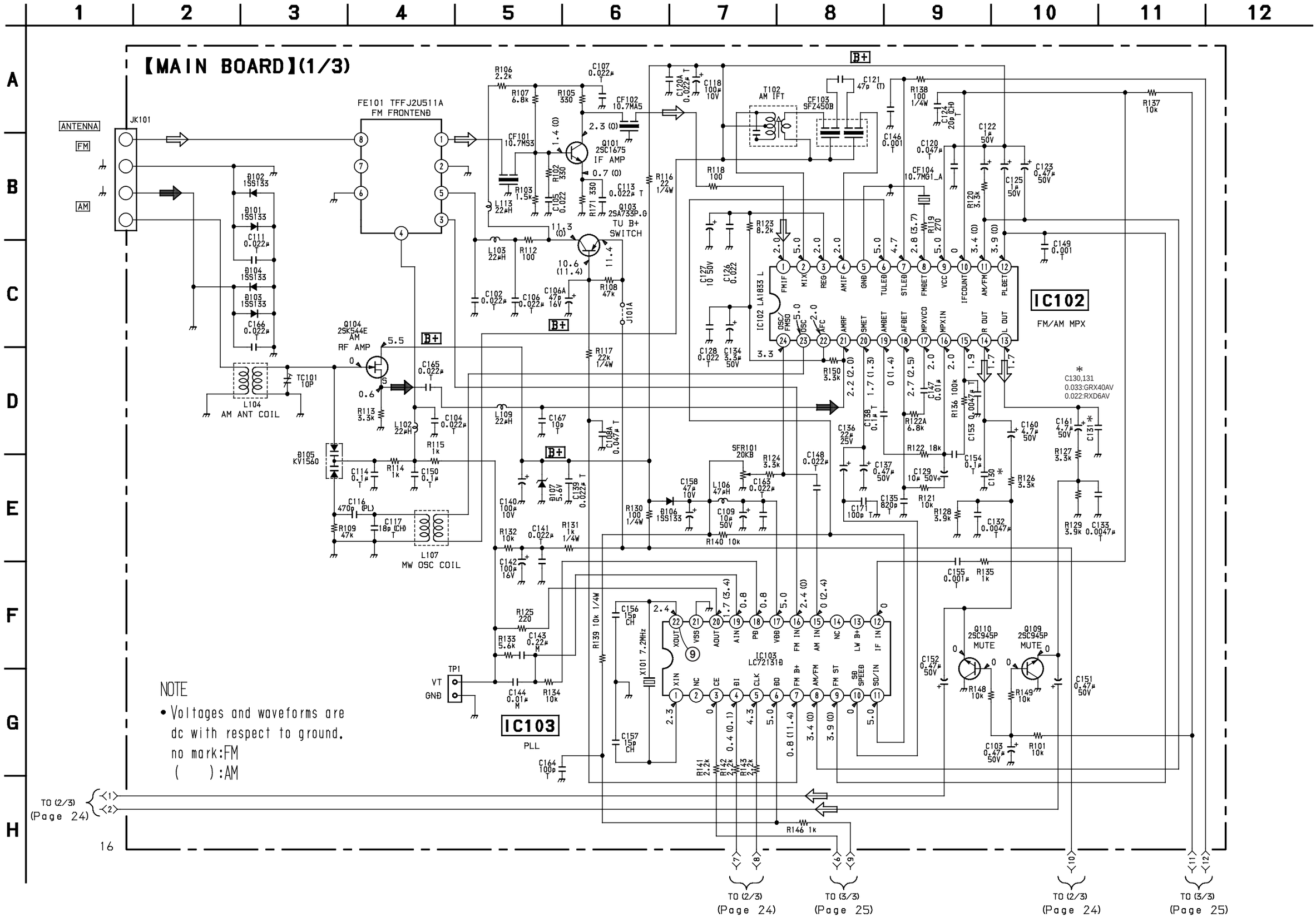
• **Semiconductor Location**

Ref. No.	Location
D105	H-3
D107	H-4
D303	F-8
D307	G-4
D308	G-4
D403	E-3
D405	B-5
D407	B-6
D409	D-6
D410	D-6
D411	D-4
D412	D-4
IC102	G-6
IC103	I-5
IC201	C-9
IC301	F-9
IC302	H-10
IC303	F-11
IC304	G-3
IC305	E-10
IC306	C-7
Q101	H-6
Q103	I-3
Q104	H-3
Q109	G-8
Q110	H-8
Q201	C-10
Q202	B-10
Q203	C-10
Q204	B-10
Q205	C-10
Q206	B-10
Q207	C-11
Q208	C-10
Q209	C-11
Q210	D-8
Q211	D-9
Q213	C-8
Q214	B-8
Q251	B-9
Q252	B-7
Q253	B-7
Q301	F-2
Q302	G-2
Q303	F-3
Q304	F-3
Q305	F-5
Q308	D-9
Q309	D-10
Q310	D-9
Q311	D-10
Q312	E-10
Q313	E-11
Q314	F-10
Q315	F-11
Q316	F-7
Q317	F-7
Q318	F-5
Q401	B-5
Q403	C-6
Q405	B-5
Q406	D-6
Q407	E-7
Q411	E-7
Q412	B-4
Q413	B-4
Q414	C-3
Q415	B-4
Q419	B-11
Q420	A-11


【MAIN BOARD】
【H/P BOARD】
A TO AMP BOARD CN301 (Page 32)
B TO FRONT AMP BOARD CN302 (Page 35)
C TO CD DECORD BOARD CN704 (Page 30)
JK401 FRONT SPEAKER L R
JK402 REAR SPEAKER CENTER SPEAKER L R
TO POWER TRANSFORMER F (Page 32)
JK301 IN MD/VIDEO OUT R L
JK303 WOOFER OUT
JK101 ANTENNA AM FM
JK403 PHONES
1-675-355 (4142270620)
HE901 ERASE HEAD
B DECK
HRP901 RECORD/ PLAYBACK HEAD
A DECK
HP901 PLAYBACK HEAD
D TO FLD BOARD CN102 (Page 28)
E TO FLD BOARD CN101 (Page 28)
1-675-354 (4142270610)

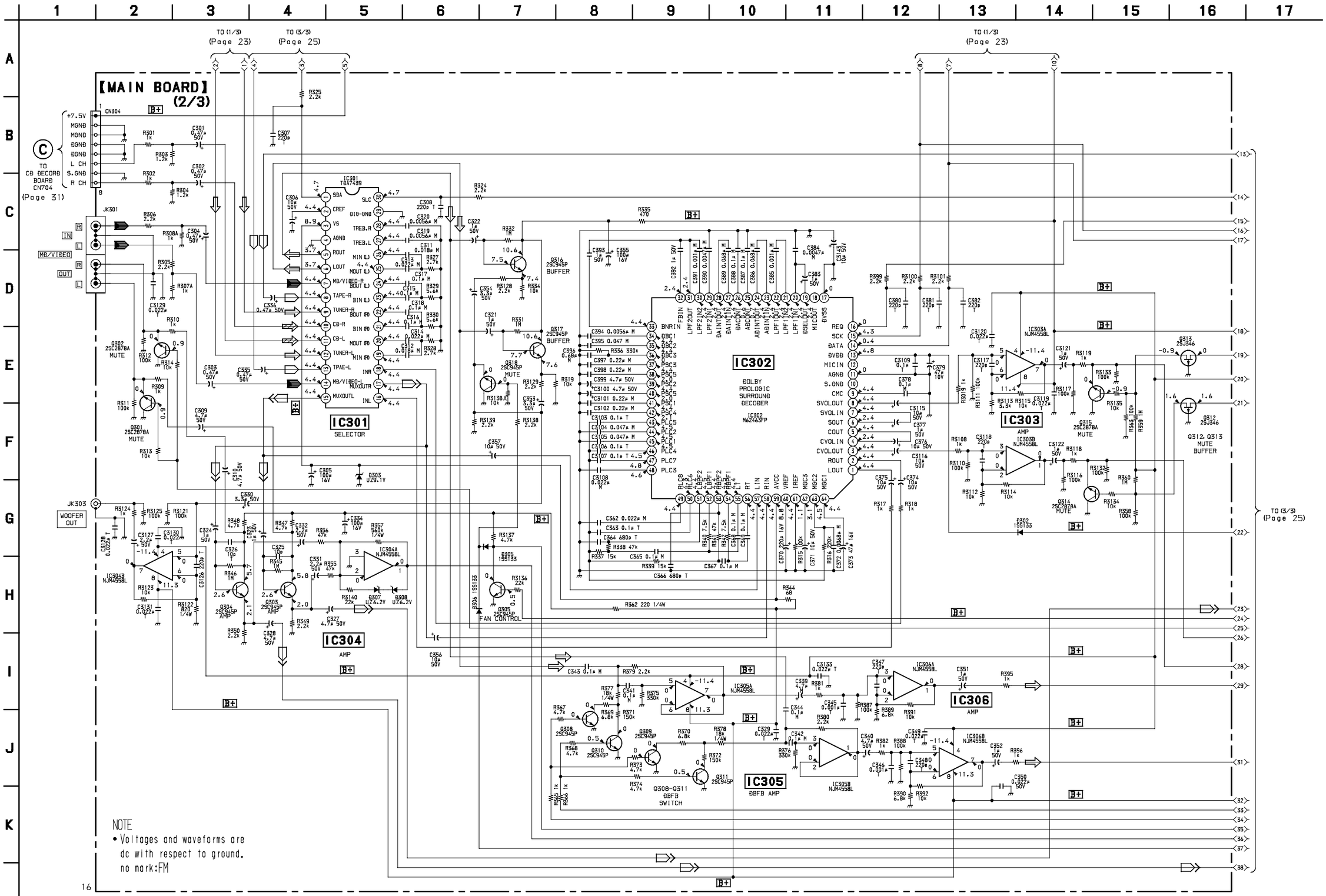
7-4. SCHEMATIC DIAGRAM TUNER SECTION

• Refer to page 21 for Note on Schematic Diagrams. • Refer to page 39 for IC Block Diagrams.



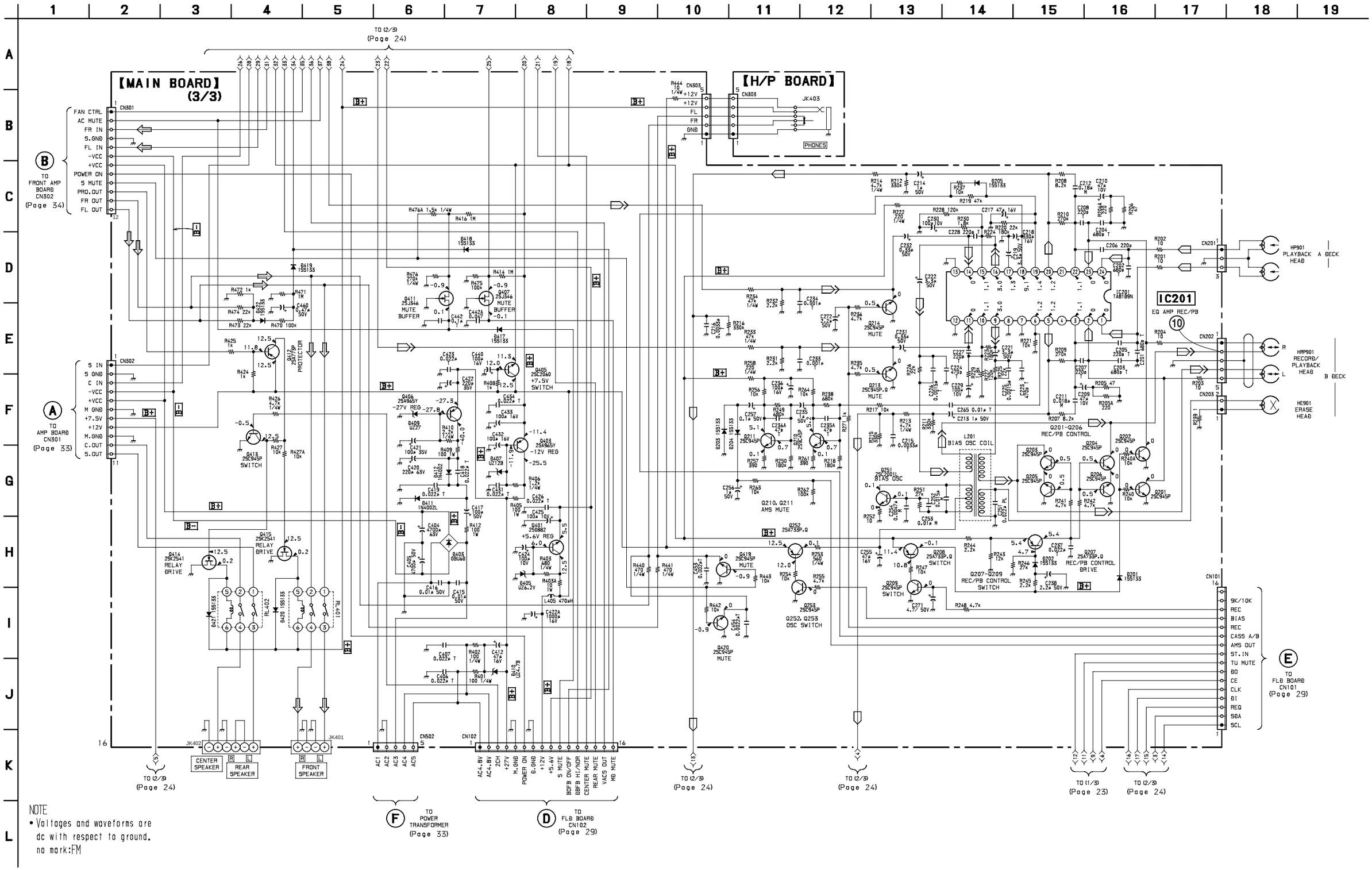
7-5. SCHEMATIC DIAGRAM DOLBY SECTION

• Refer to page 21 for Note on Schematic Diagrams. • Refer to page 22 for Printed Wiring Board.



7-6. SCHEMATIC DIAGRAM TEPE/POWER SECTION

• Refer to page 21 for Note on Schematic Diagrams. • Refer to page 22 for Printed Wiring Board. • Refer to page 39 for IC Block Diagrams.



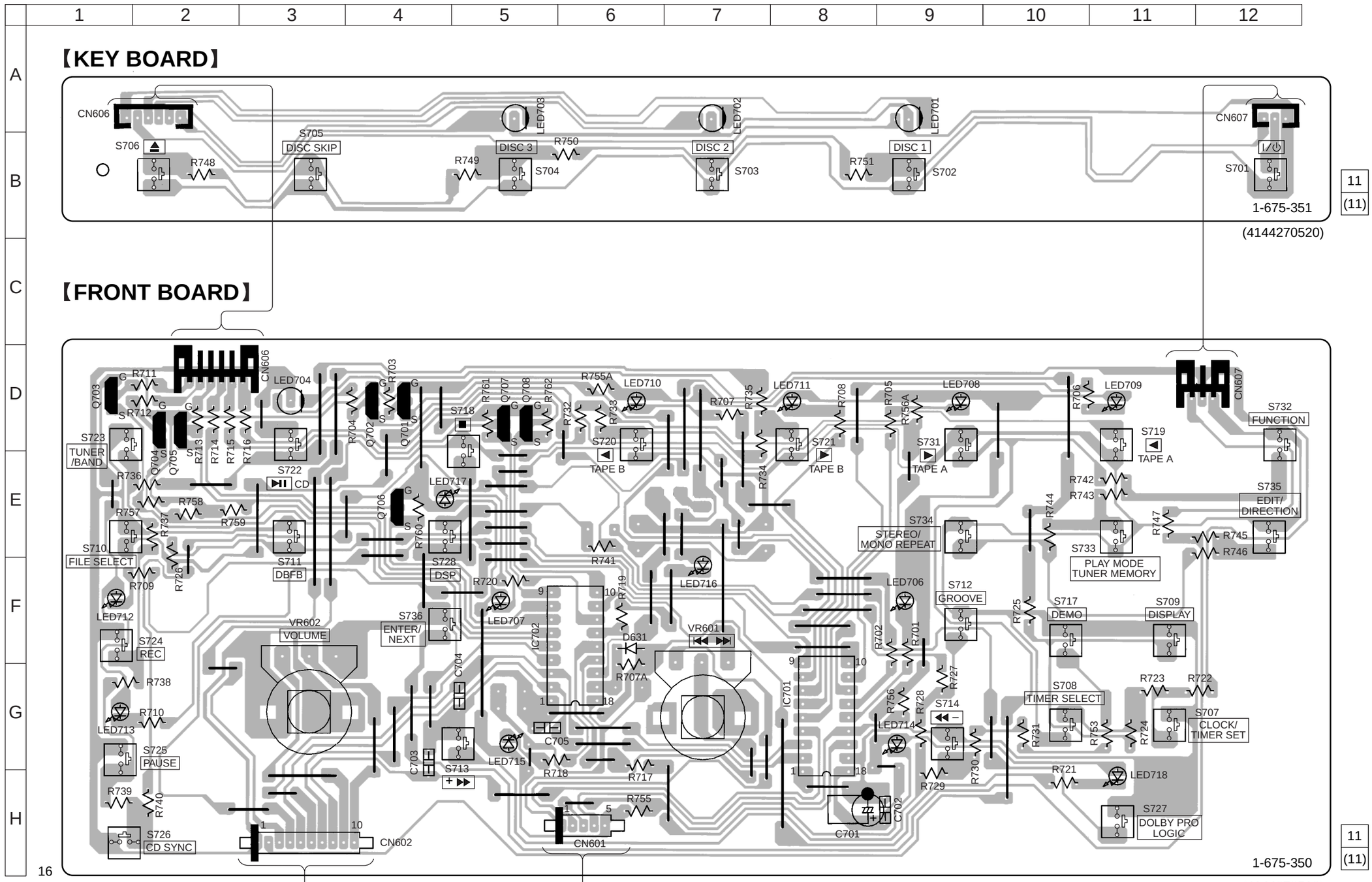
NOTE
- Voltages and waveforms are dc with respect to ground.
  no mark:FM

7-7. PRINTED WIRING BOARD FRONT SECTION

• Refer to page 21 for Note on Printed Wiring Boards. • Refer to page 21 for Circuit Boards Location.

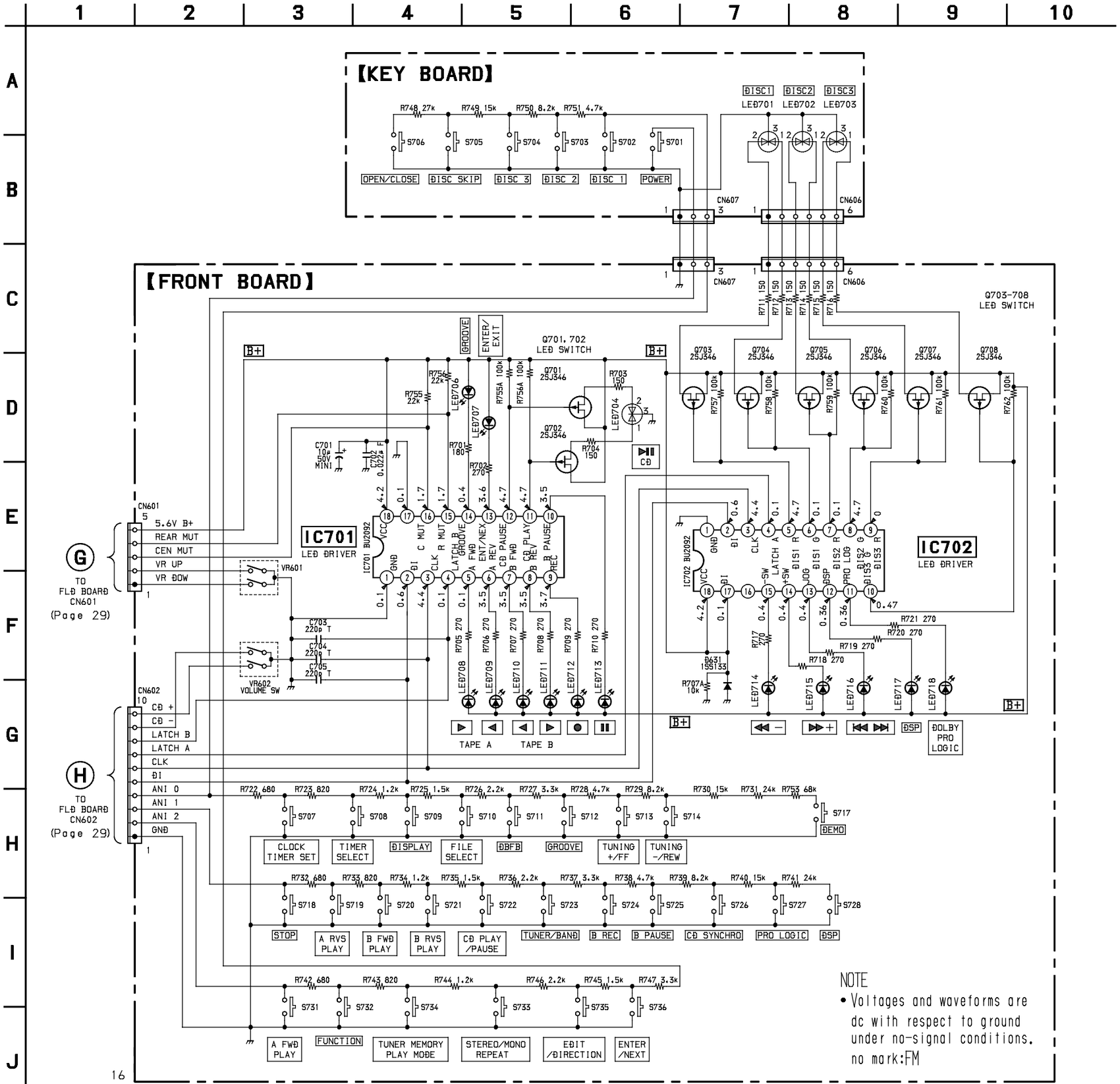
• **Semiconductor Location**

Ref. No.	Location
D631	F-6
IC701	G-8
IC702	F-6
Q701	D-4
Q702	D-4
Q703	D-1
Q704	D-2
Q705	D-2
Q706	E-4
Q707	D-5
Q708	D-5



7-8. SCHEMATIC DIAGRAM FRONT SECTION

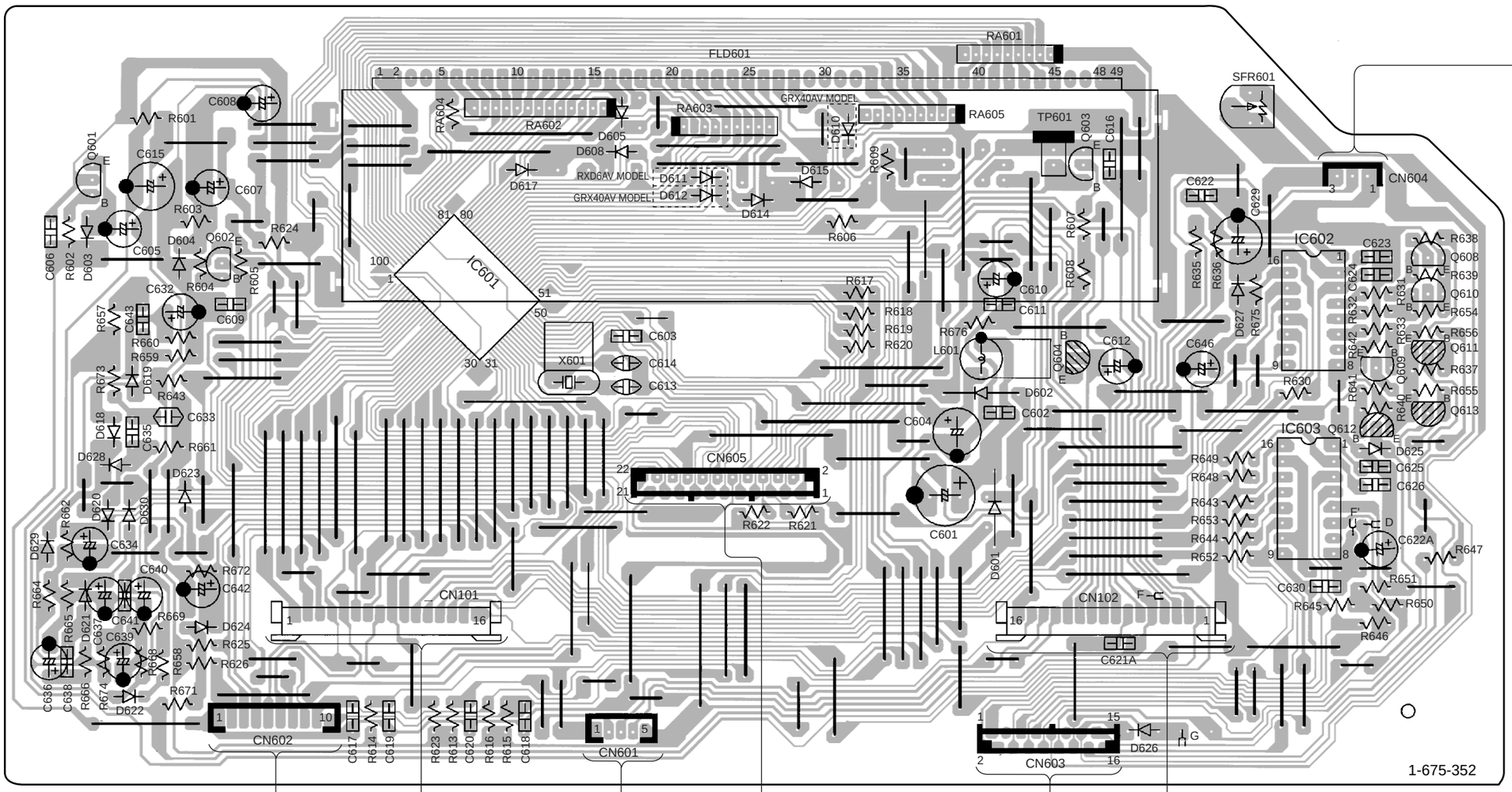
• Refer to page 21 for Note on Schematic Diagrams. • Refer to page 38 for IC Block Diagrams.



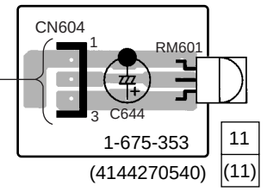
7-9. PRINTED WIRING BOARD FLD SECTION

• Refer to page 21 for Note on Printed Wiring Boards. • Refer to page 21 for Circuit Boards Location.

【FLD BOARD】



【SENSOR BOARD】



11
(11)

11
(11)

TO FRONT BOARD CN602 (Page 26)

TO MAIN BOARD CN101 (Page 22)

TO FRONT BOARD CN601 (Page 26)

TO CD DECORD BOARD CN705 (Page 30)

TO TAPE MECHANISM

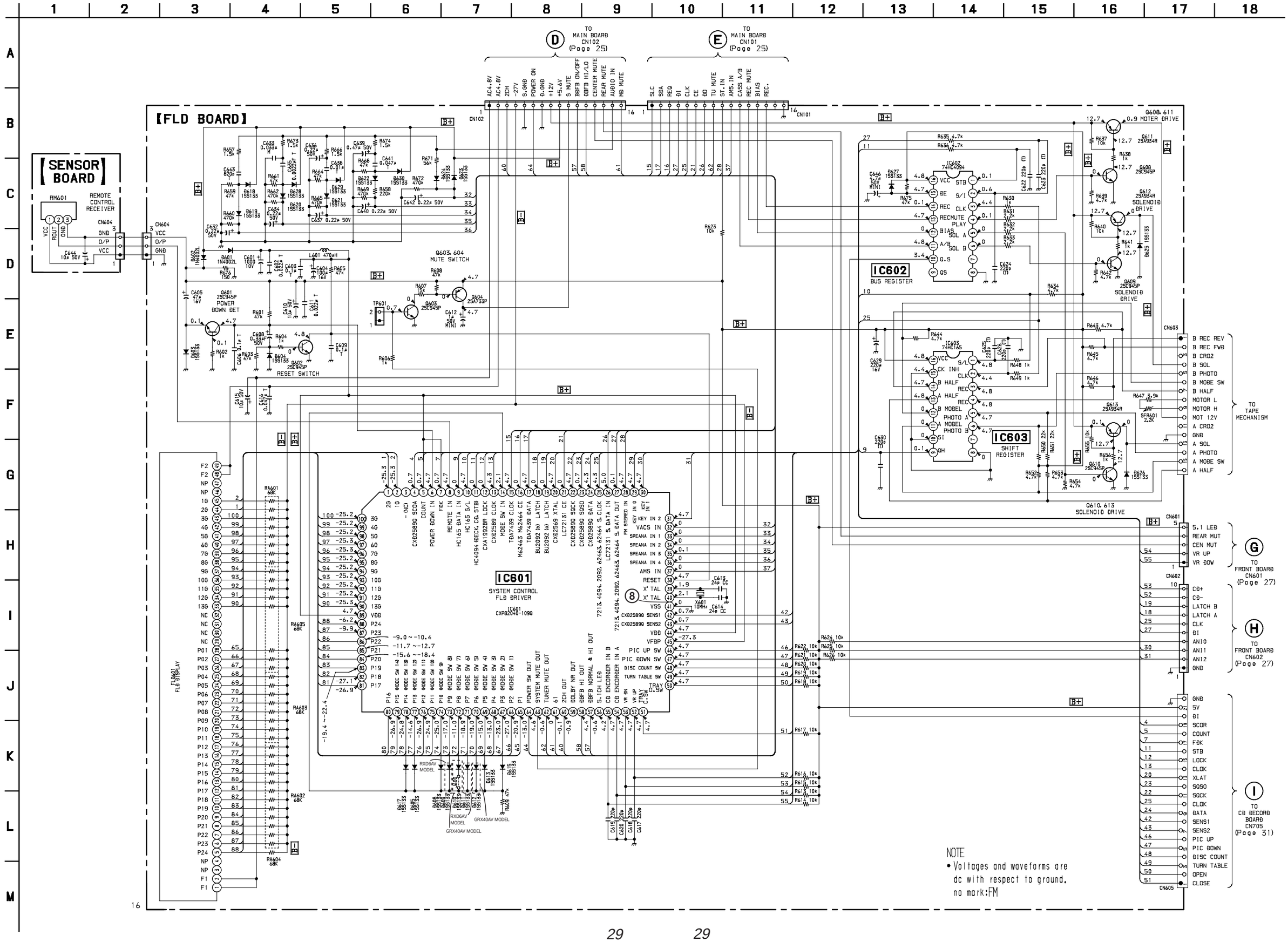
TO MAIN BOARD CN102 (Page 22)

• **Semiconductor Location**

Ref. No.	Location
D601	E-9
D602	D-9
D603	C-2
D604	C-2
D605	B-6
D608	B-6
D610	B-7
D611	B-6
D612	B-6
D614	C-6
D615	B-7
D617	B-5
D618	D-2
D619	D-2
D620	E-2
D621	F-2
D622	F-2
D623	E-2
D624	F-3
D625	D-12
D626	G-10
D627	C-11
D628	E-2
D629	E-1
D630	E-2
IC601	C-5
IC602	C-11
IC603	D-11
Q601	B-2
Q602	C-3
Q603	B-9
Q604	D-9
Q608	C-12
Q609	D-12
Q610	C-12
Q611	D-12
Q612	D-12
Q613	D-12

7-10. SCHEMATIC DIAGRAM FLD SECTION

• Refer to page 21 for Note on Schematic Diagrams. • Refer to page 21 for Wavefoms. • Refer to page 38 for IC Block Diagrams. • Refer to page 40 for IC Pin Function Description.

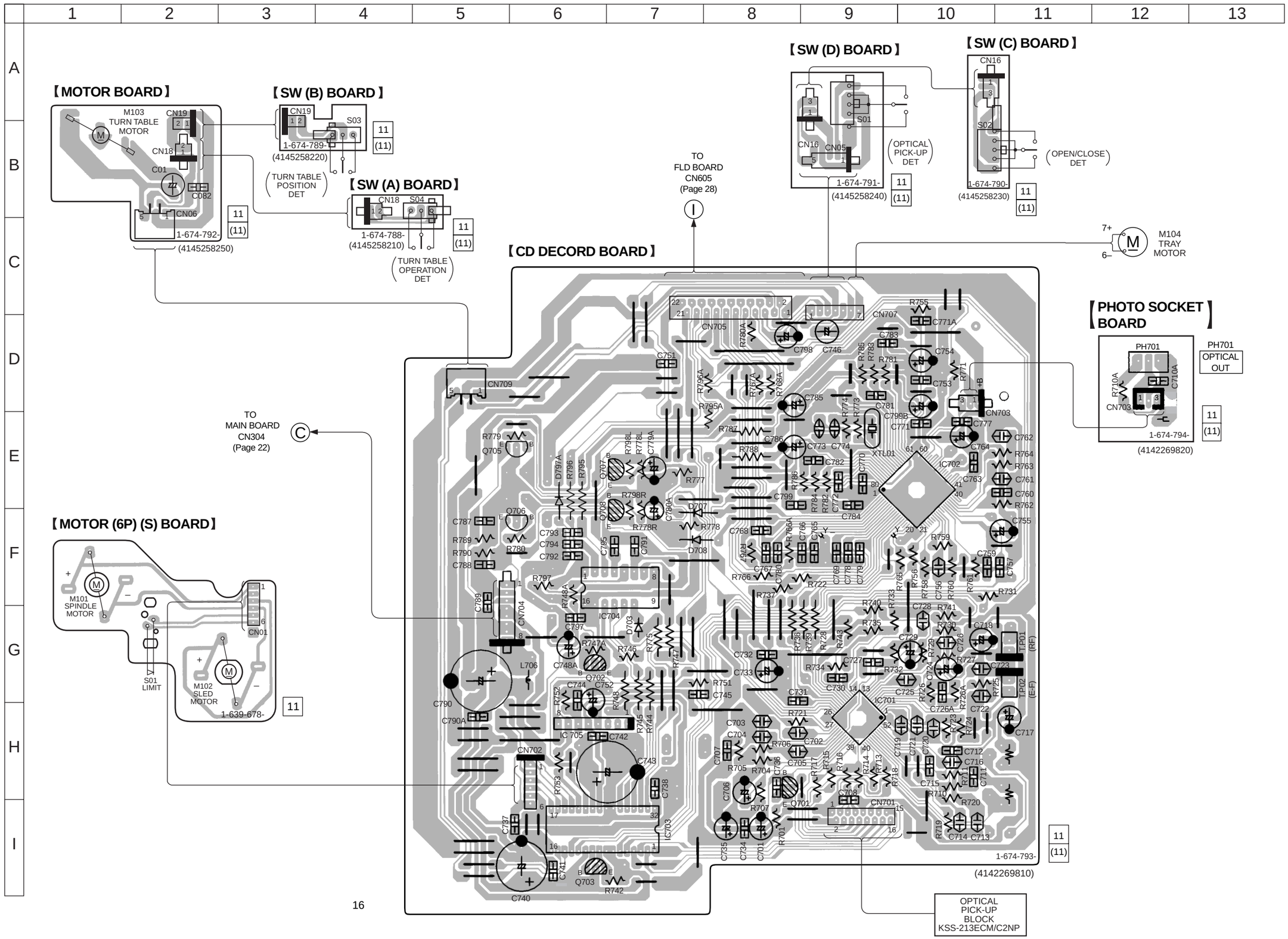


7-11. PRINTED WIRING BOARD CD SECTION

• Refer to page 21 for Note on Printed Wiring Boards. • Refer to page 21 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D703	G-7
D707	E-7
D708	F-7
D797A	E-6
IC701	H-9
IC702	E-10
IC703	I-7
IC704	F-7
IC705	H-6
Q701	H-8
Q702	G-6
Q703	I-6
Q705	E-6
Q706	F-6
Q707	E-7
Q708	E-7

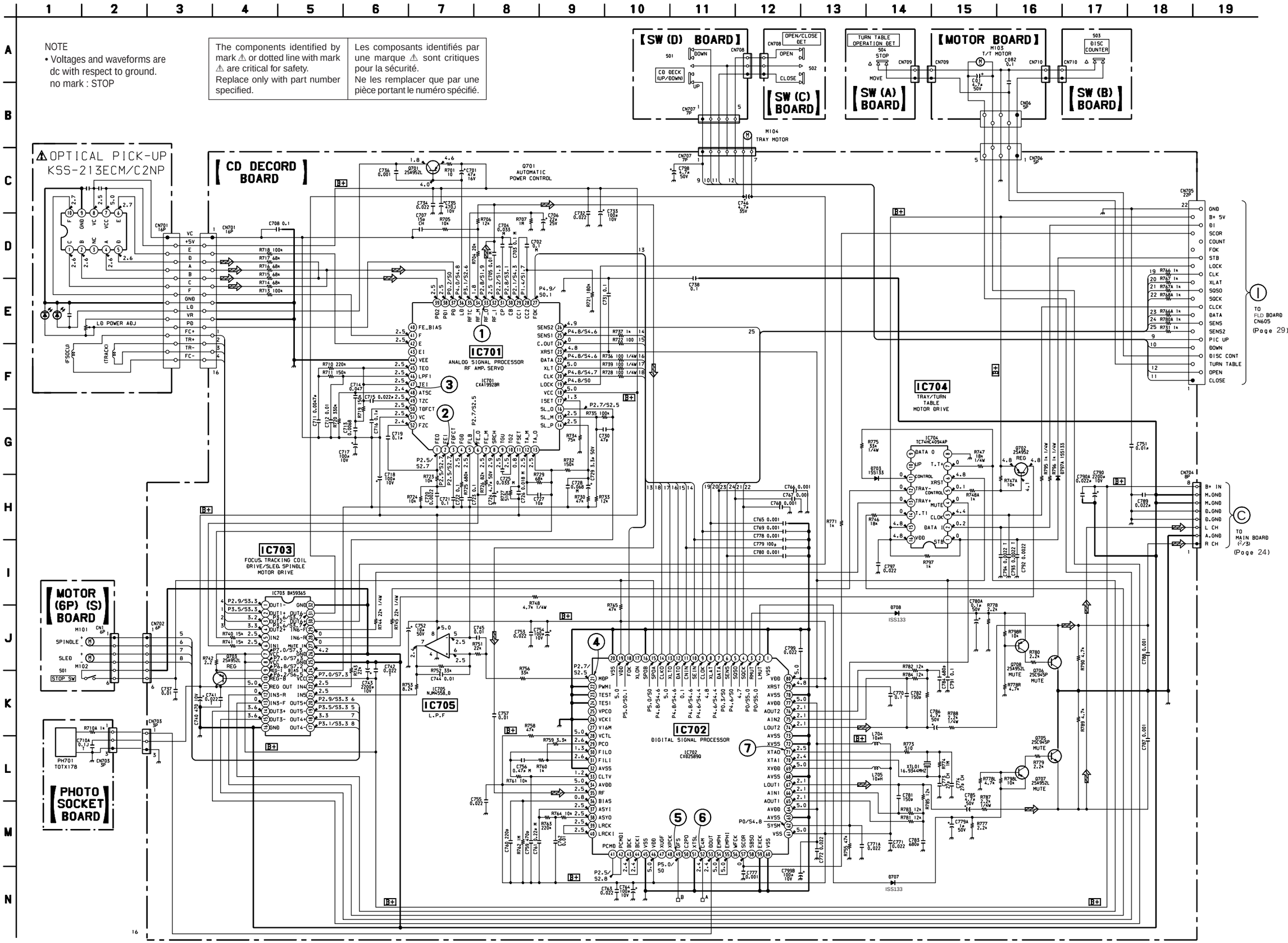


7-12. SCHEMATIC DIAGRAM CD SECTION

• Refer to page 21 for Note on Schematic Diagrams. • Refer to page 21 for Wavefoms. • Refer to page 36 for IC Block Diagrams.

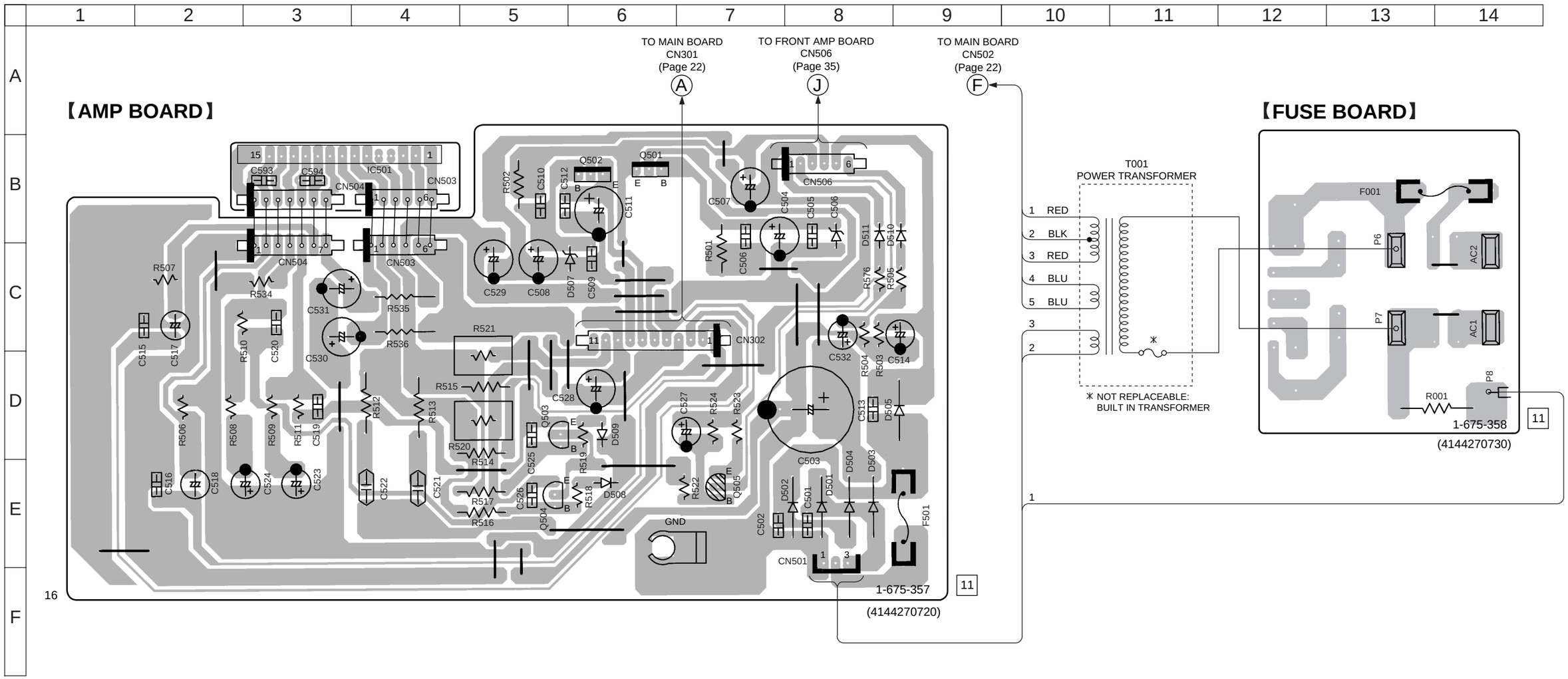
NOTE
• Voltages and waveforms are dc with respect to ground.
no mark : STOP

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



7-13. PRINTED WIRING BOARD CENTER/REAR AMP SECTION

• Refer to page 21 for Note on Printed Wiring Boards. • Refer to page 21 for Circuit Boards Location.

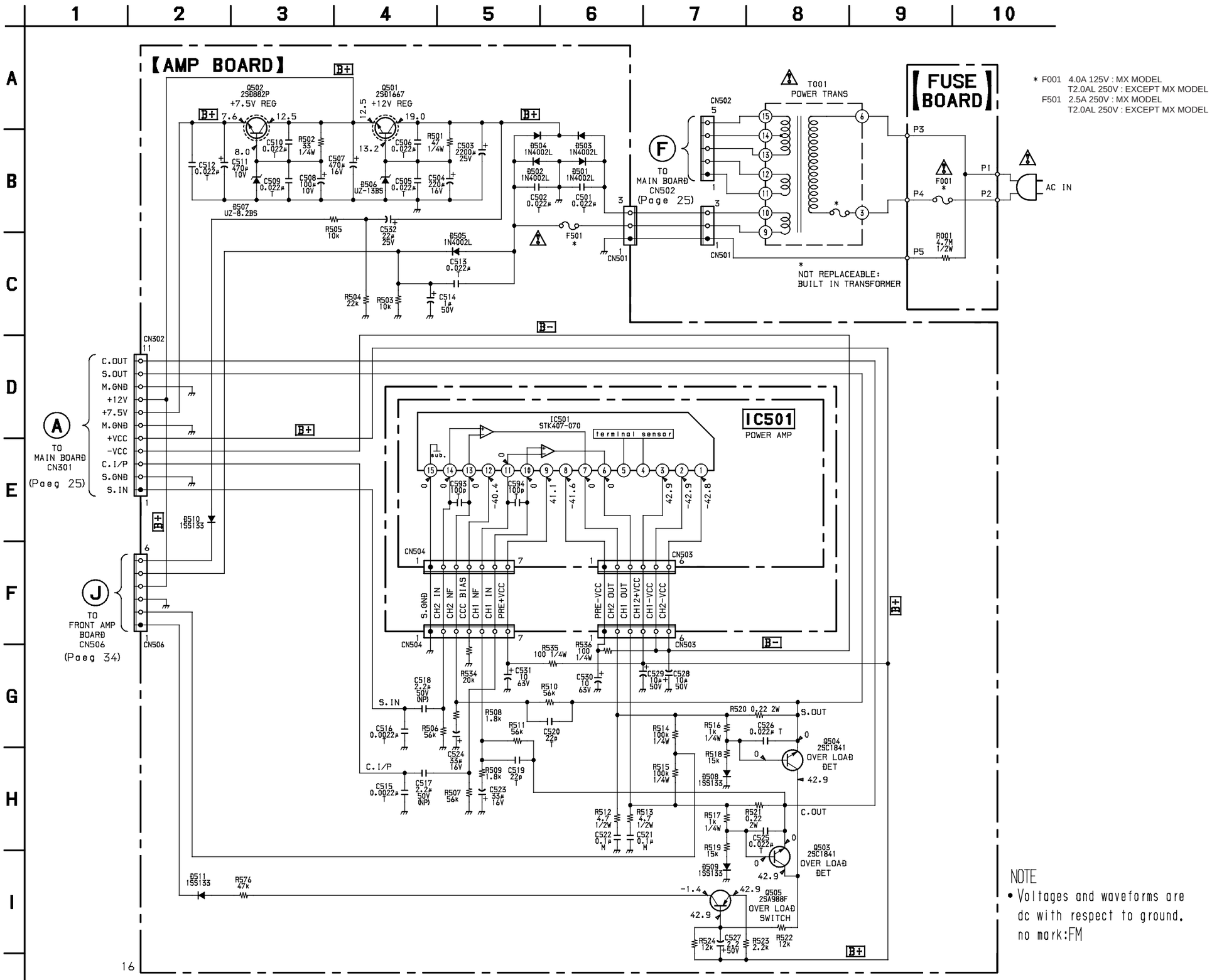


• **Semiconductor Location**

Ref. No.	Location
D501	E-8
D502	E-8
D503	E-8
D504	E-8
D505	D-9
D506	B-8
D507	C-6
D508	E-6
D509	D-6
D510	B-9
D511	B-8
IC501	B-4
Q501	B-6
Q502	B-6
Q503	D-5
Q504	E-5
Q505	E-7

7-14. SCHEMATIC DIAGRAM CENTER/REAR AMP SECTION

• Refer to page 21 for Note on Schematic Diagrams.



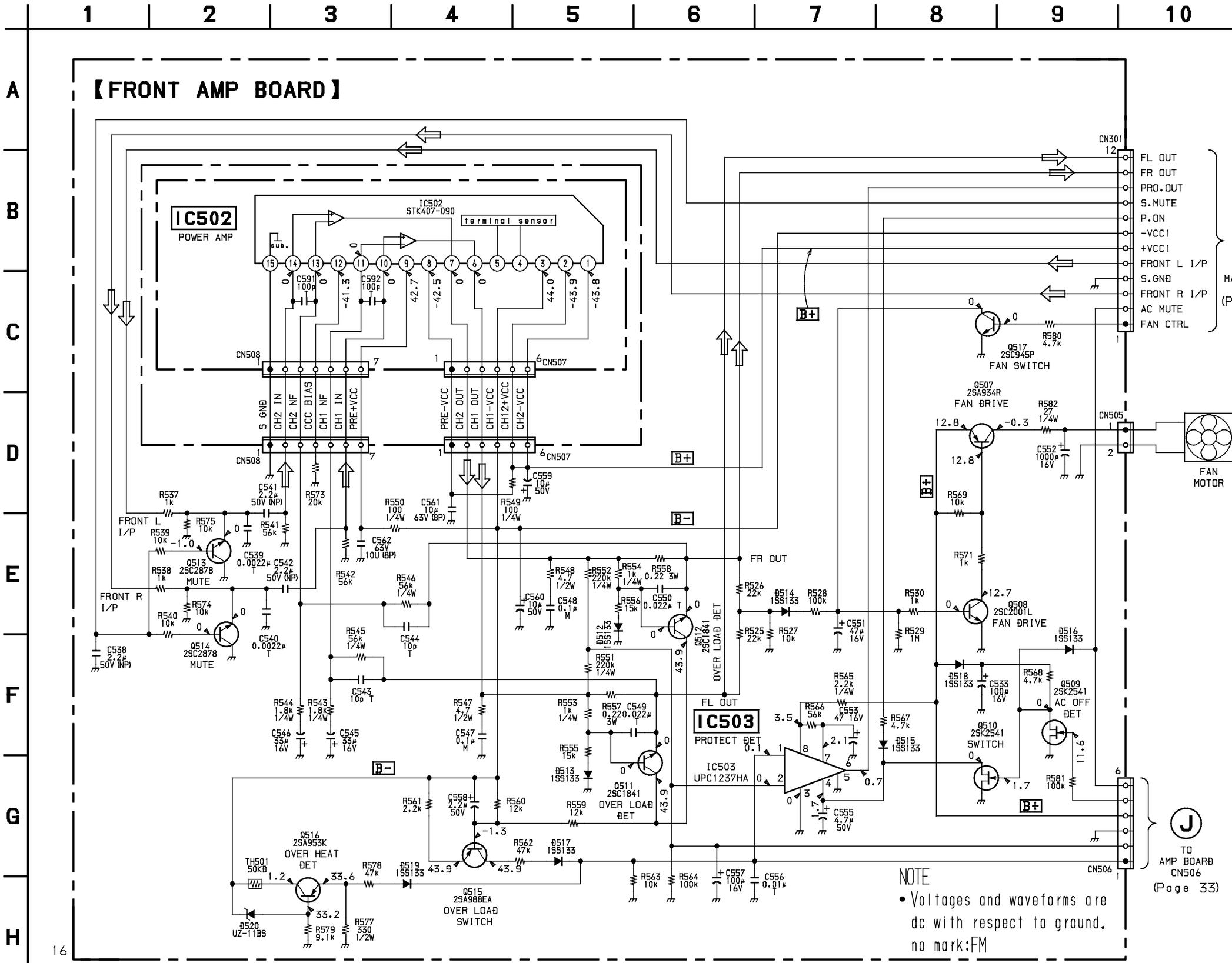
NOTE

• Voltages and waveforms are dc with respect to ground.
no mark:FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

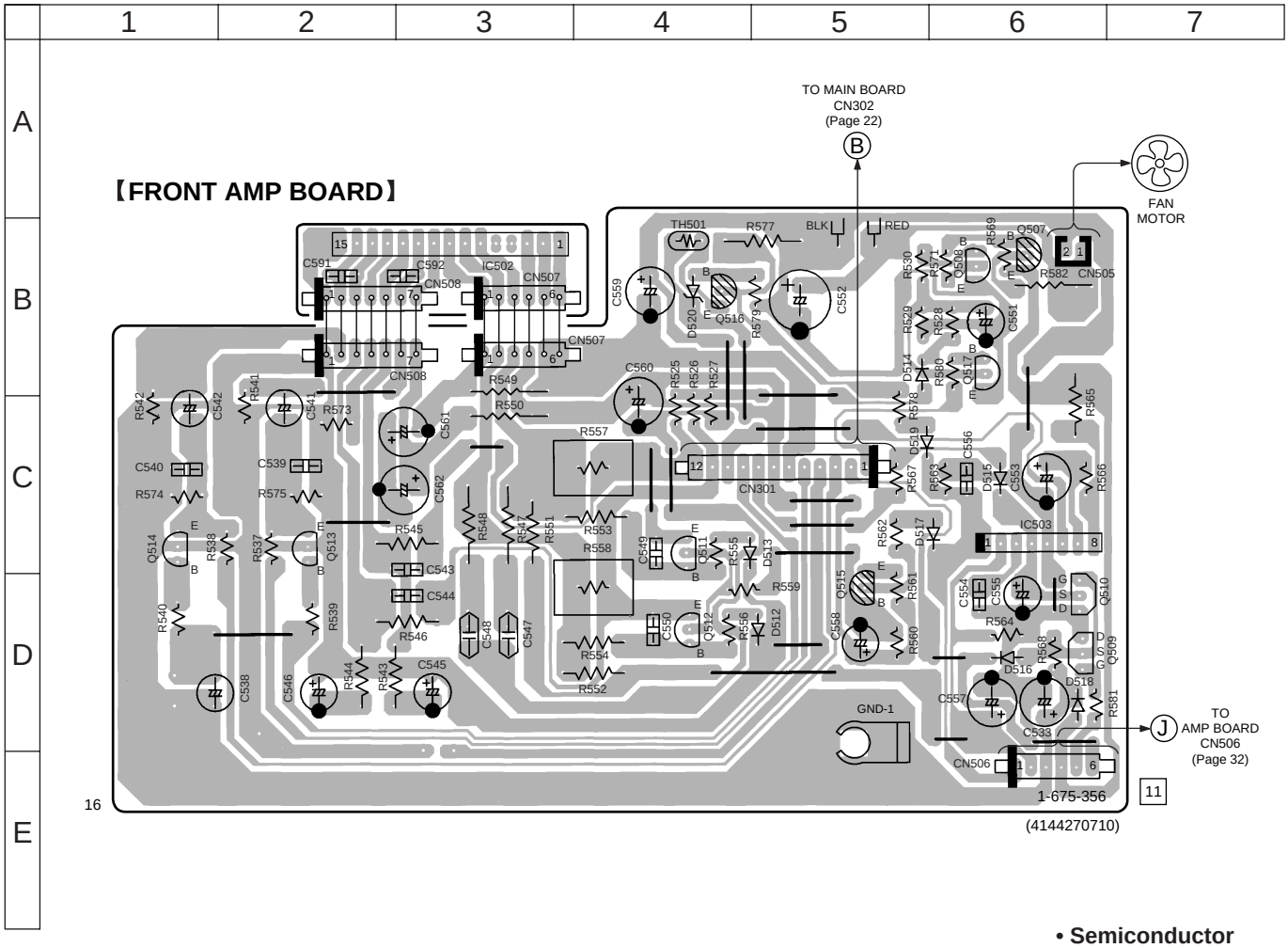
7-15. SCHEMATIC DIAGRAM FRONT AMP SECTION

• Refer to page 21 for Note on Schematic Diagrams.



7-16. PRINTED WIRING BOARD FRONT AMP SECTION

• Refer to page 21 for Note on Printed Wiring Boards. • Refer to page 21 for Circuit Boards Location.

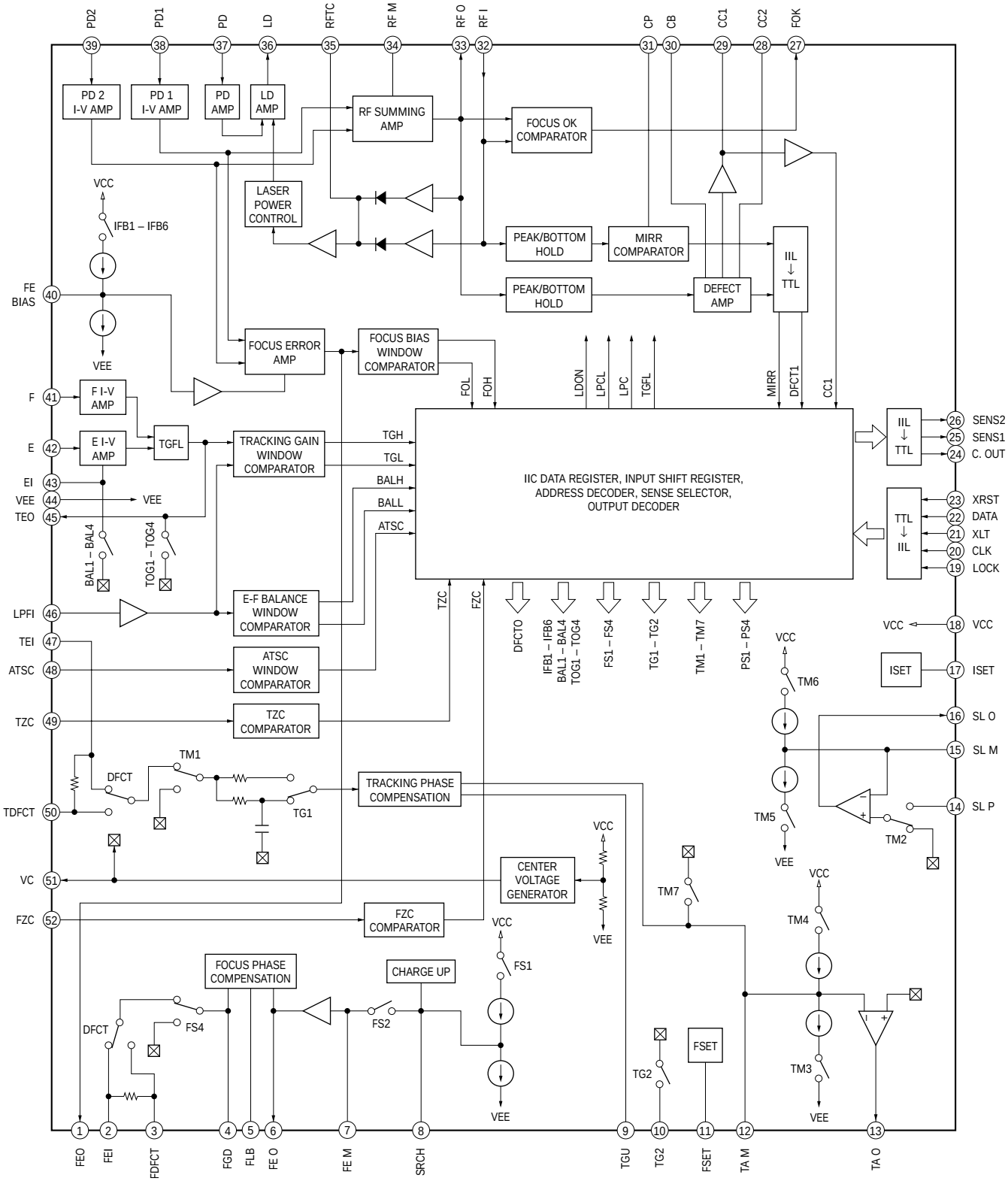


• **Semiconductor Location**

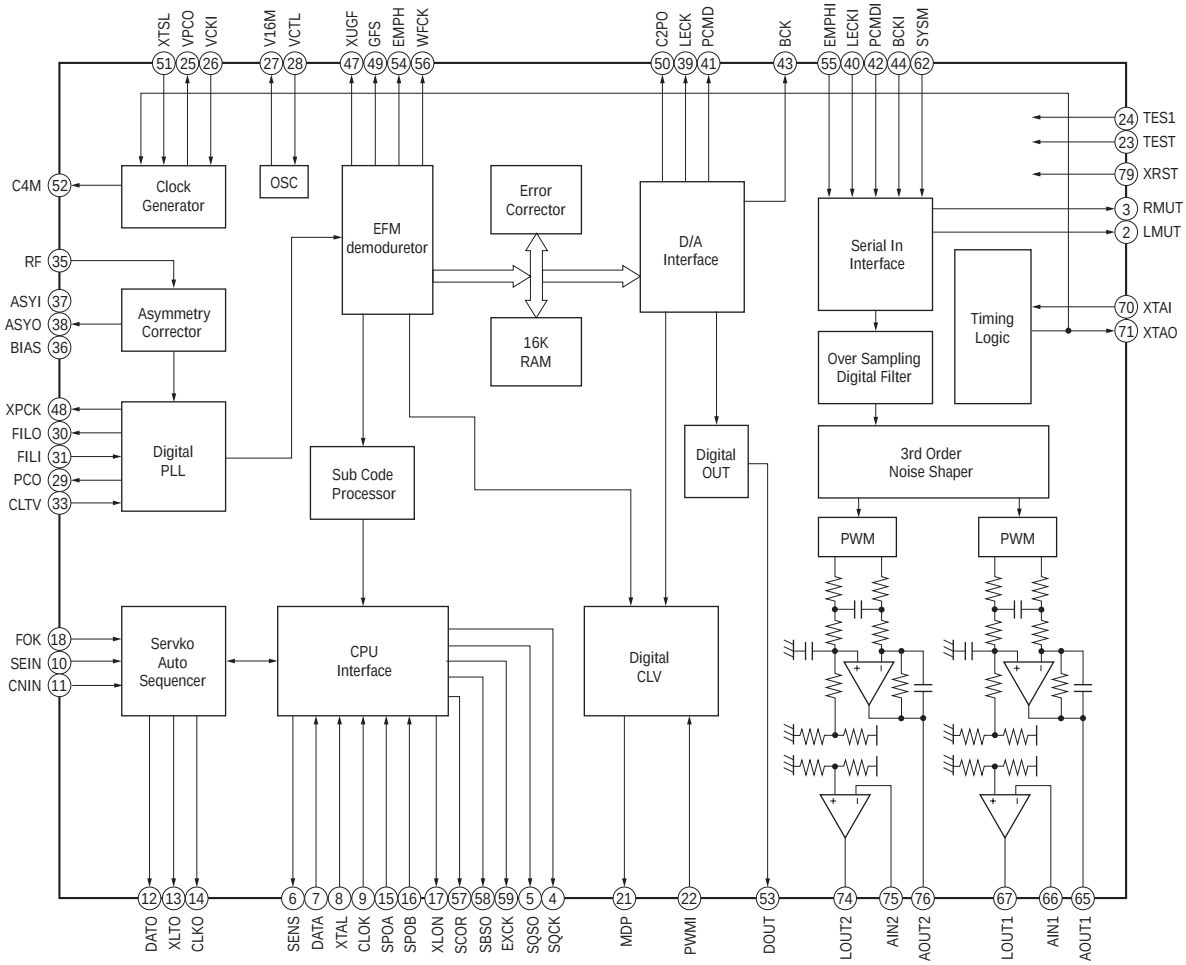
Ref. No.	Location
D512	D-5
D513	C-5
D514	B-5
D515	C-6
D516	D-6
D517	C-6
D518	D-6
D519	C-5
D520	B-4
IC502	B-3
IC503	C-6
Q507	B-6
Q508	B-6
Q509	D-6
Q510	C-6
Q511	C-4
Q512	D-4
Q513	C-2
Q514	C-1
Q515	D-5
Q516	B-4
Q517	B-6

7-17. IC BLOCK DIAGRAMS

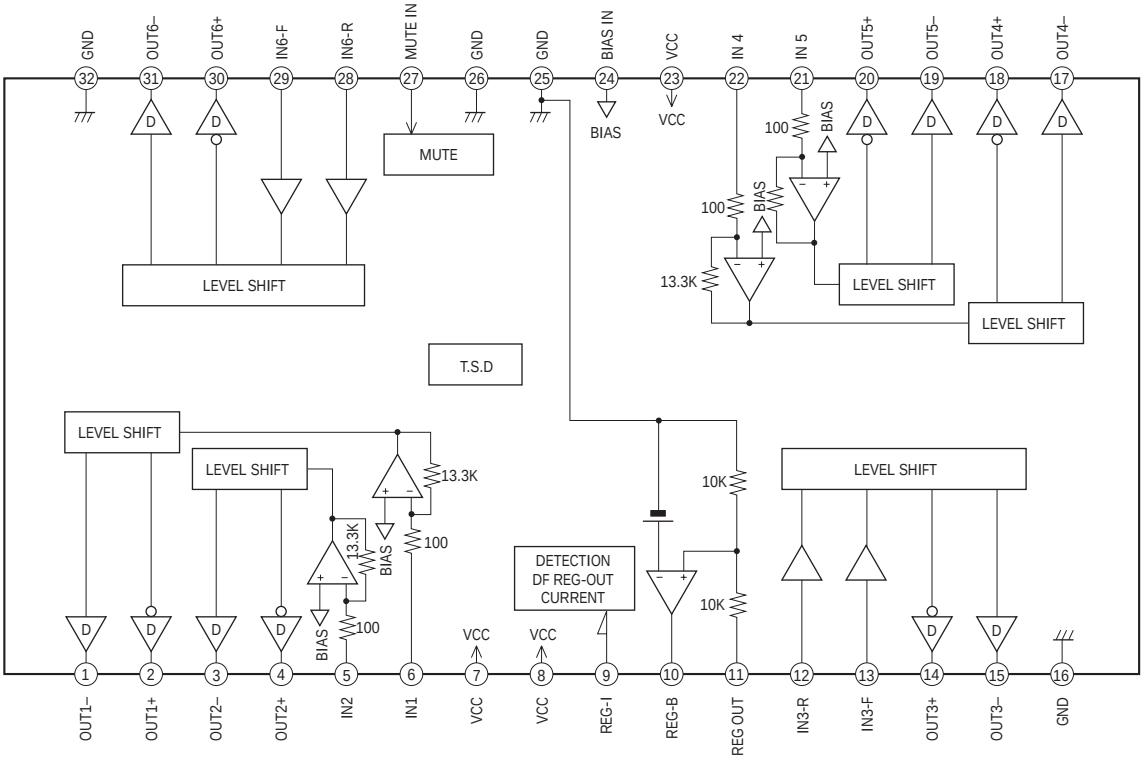
IC701 CXA1992BR (CD DECORD Board)



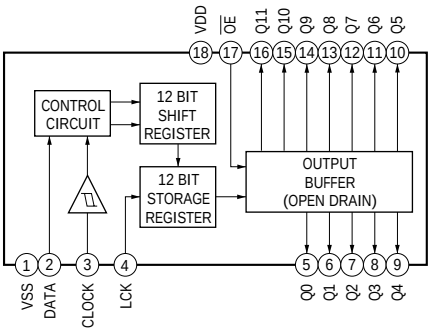
IC702 CXD2589Q (CD DECORD Board)



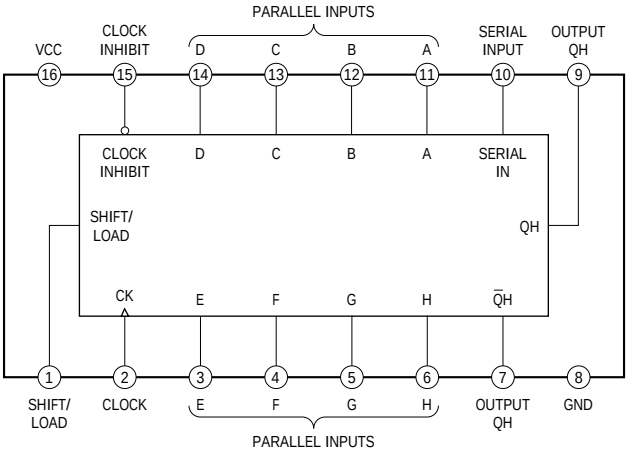
IC703 BA5936S (CD DECORD Board)



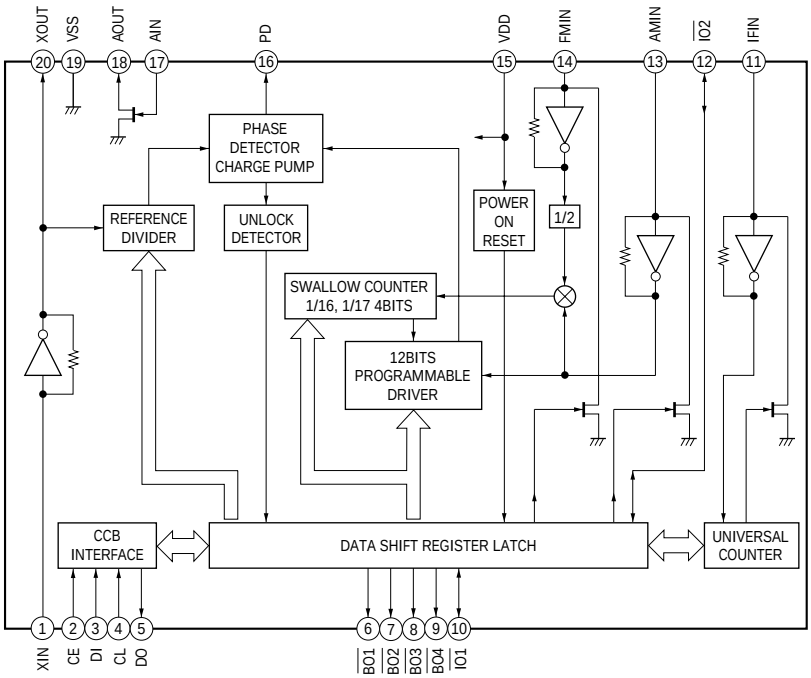
IC701, 702 BU2092 (FRONT Board)



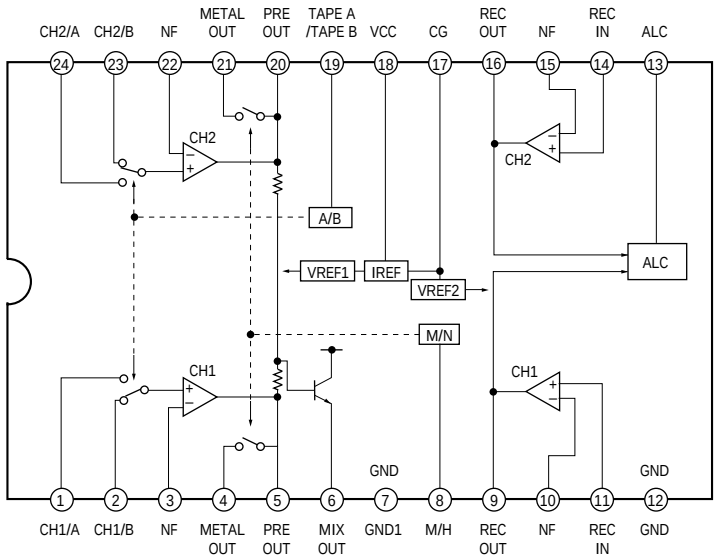
IC603 74HC165 (FLD Board)



IC103 LC72131 (MAIN Board)



IC201 TA8189N (MAIN Board)



7-18. IC PIN FUNCTION DESCRIPTION

• FLD BOARD IC601 CXP82040-109Q (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1,2	2G,1G	O	FLD grid output.
3	NC	—	Not used.
4	SCOR	I	CXD2589Q SCOR input.
5	COUNT	I	CXD2589Q COUNT input.
6	POWER DOWN IN	I	Power data input.
7	FOK	I	FOK input.
8	REMOTE IN	I	Remote signal input.
9	DATA IN	I	Data input.(DECK secton)
10	S/L	O	S/L output.(DECK secton)
11	DECK,CD STB	O	STB output.(CD,DECK section)
12	LOCK	O	CXA1992BR LOCK output.
13	CLOCK	O	CXD2589Q CLOCK output.
14	MODE SW IN	O	Mode switch input.
15	CLOCK	O	TDA7439 CLOCK output.
16	CE	O	M62463 CE output.
17	CTRL	O	Function control output.
18	LATCH B	O	LATCH output.
19	LATCH A	O	LATCH output.
20	XLAT	O	CXD2589Q XLAT output.
21	CE	O	LC72131 CE output.
22	SQCK	O	CXD2589Q SQCK output.
23	SQSO	O	CXD2589Q SQSO output.
24	DATA	O	CXD2589Q DATA output.
25	S.CLOCK	O	S.CLOCK output.
26	S,DATA IN	I	S.DATA input.
27	S.DATA OUT	O	S.DATA output.
28	FM STEREO IN	I	FM Stereo input.
29 to 31	KEY IN O to 2	I	Key input 0 to 2.
32	VACS IN	I	VACS input.
33 to 36	SPEANA IN 1 to 4	I	Spectrum Analyzer input.
37	ANS IN	I	AMS input.
38	RESET	I	RESET input.
39	EXTAL	—	X'TAL 10MHz
40	XTAL	—	X'TAL 10MHz
41	VSS	—	Ground.
42	SENS1	I	CXD2589Q SENS1 input.
43	SENS2	I	CXD2589Q SENS2 input.
44	VDD	—	VDD.
45	VFDP	—	VFDP.
46	PICK UP SW	I	Pick-up up switch signal input.
47	PICK DOWN SW	I	Pick-up down switch signal input.
48	DISC COUNT SW	I	Disc count switch signal input.
49	TURN TABLE SW	I	Turn Table switch signal input.
50	TRAY O. SW	I	Tray open switch signal input.

Pin No.	Pin Name	I/O	Description
51	TRAY C. SW	I	Tray close switch signal input.
52	VR UP	I	Volume up signal input.
53	VR DN	I	Volume down signal input.
54	CD ENCODER IN A	I	CD JOG encode signal A input.
55	CD ENCODER IN B	I	CD JOG encode signal B input.
56	SURROUND OUT	O	Not used.
57	DBFB NOR&HI OUT	O	DBFB ON/OFF output.
58	DBFB HI OUT	O	DBFB HI/LO output.
59	DOLBY NR OUT	O	DOLBY NR ON/OFF output.
60	2CH OUT	O	Rear/center ON/OFF output.
61	MD MUTE	O	MD Mute output.
62	TUNER MUTE OUT	O	Tuner Mute output.
63	SYSTEM MUTE OUT	O	System Mute output.
64	POWER SW OUT	O	POWER switch output.
65	P1	O	FLD segment output.
66	P2(MODE SW 1)	O	FLD segment output. Mode switch 1.
67	P3(MODE SW 2)	O	FLD segment output. Mode switch 2.
68	P4(MODE SW 3)	O	FLD segment output. Mode switch 3.
69	P5(MODE SW 4)	O	FLD segment output. Mode switch 4.
70	P6(MODE SW 5)	O	FLD segment output. Mode switch 5.
71	P7(MODE SW 6)	O	FLD segment output. Mode switch 6.
72	P8(MODE SW 7)	O	FLD segment output. Mode switch 7.
73	P9(MODE SW 8)	O	FLD segment output. Mode switch 8.
74	P10(MODE SW 9)	O	FLD segment output. Mode switch 9.
75	P11(MODE SW 10)	O	FLD segment output. Mode switch 10.
76	P12(MODE SW 11)	O	FLD segment output. Mode switch 11.
77	P13(MODE SW 12)	O	FLD segment output. Mode switch 12.
78	P14(MODE SW 13)	O	FLD segment output. Mode switch 13.
79	P15(MODE SW 14)	O	FLD segment output. Mode switch 14.
80 to 88	P16 to 24	O	FLD segment output.
89	VDD	—	VDD.
90 to 100	13G to 3G	O	FLD grid output.

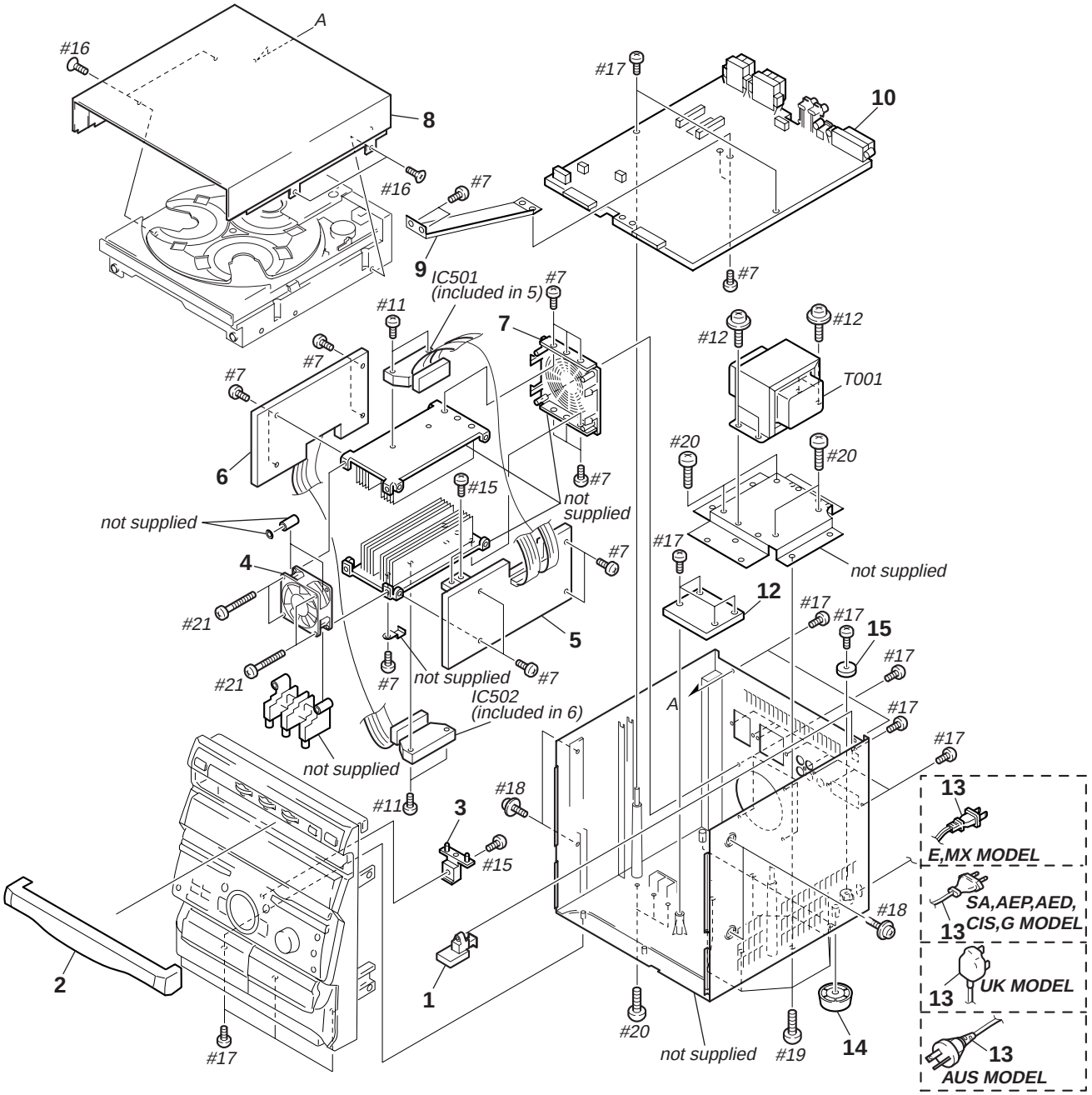
SECTION 8
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  MX : Mexican model
  SA : South African model
  AED : North European model
  G : German model
  AUS : Australian model
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

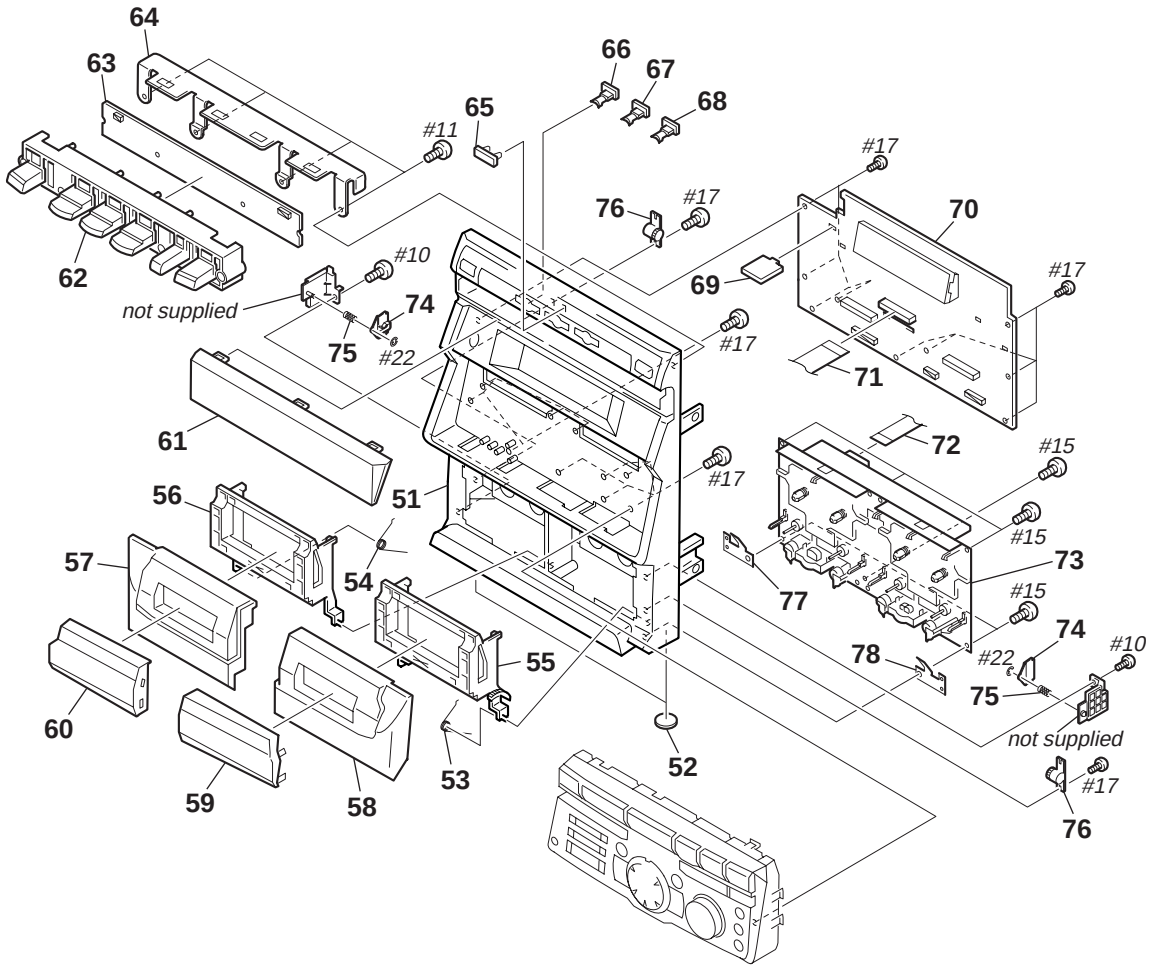
8-1. CABINET SECTION



Ref. No.	Part No.	Description	Remarks
1	1-674-794-11	PHOTO SOCKET BOARD	
2	4-223-011-01	DOOR, CD (RXD6AV)	
2	4-224-509-01	DOOR, CD (GRX40AV)	
3	4-223-018-01	STOPPER, PWB	
4	1-763-410-11	FAN,DC	
5	A-4426-701-A	AMP BOARD, COMPLETE	
6	A-4426-700-A	FRONT AMP BOARD, COMPLETE	
7	4-223-060-01	HOLDER, BLOCK	
8	4-223-017-01	CABINET, TOP	
9	4-223-030-01	BRACKET, MAIN PC BOARD	
10	A-4426-696-A	MAIN BOARD, COMPLETE (GRX40AV)	

Ref. No.	Part No.	Description	Remarks
10	A-4426-962-A	MAIN BOARD, COMPLETE (RXD6AV)	
12	1-675-358-11	FUSE BOARD	
⚠13	1-551-506-99	CORD, POWER (GRX40AV:MX)	
⚠13	1-555-795-00	CORD, POWER (GRX40AV:SA,RXD6AV:AEP,AED,CIS,G)	
⚠13	1-696-570-21	CORD, POWER (RXD6AV:UK)	
⚠13	1-696-966-11	CORD, POWER (GRX40AV:AUS)	
14	4-223-063-01	FOOT(B)	
15	4-223-061-01	WASHER, AC CORD	
⚠T001	1-435-132-11	TRANSFORMER, POWER (RXD6AV)	
⚠T001	1-435-133-11	TRANSFORMER, POWER (GRX40AV:MX)	
⚠T001	1-435-134-11	TRANSFORMER, POWER (GRX40AV:AUS,SA)	

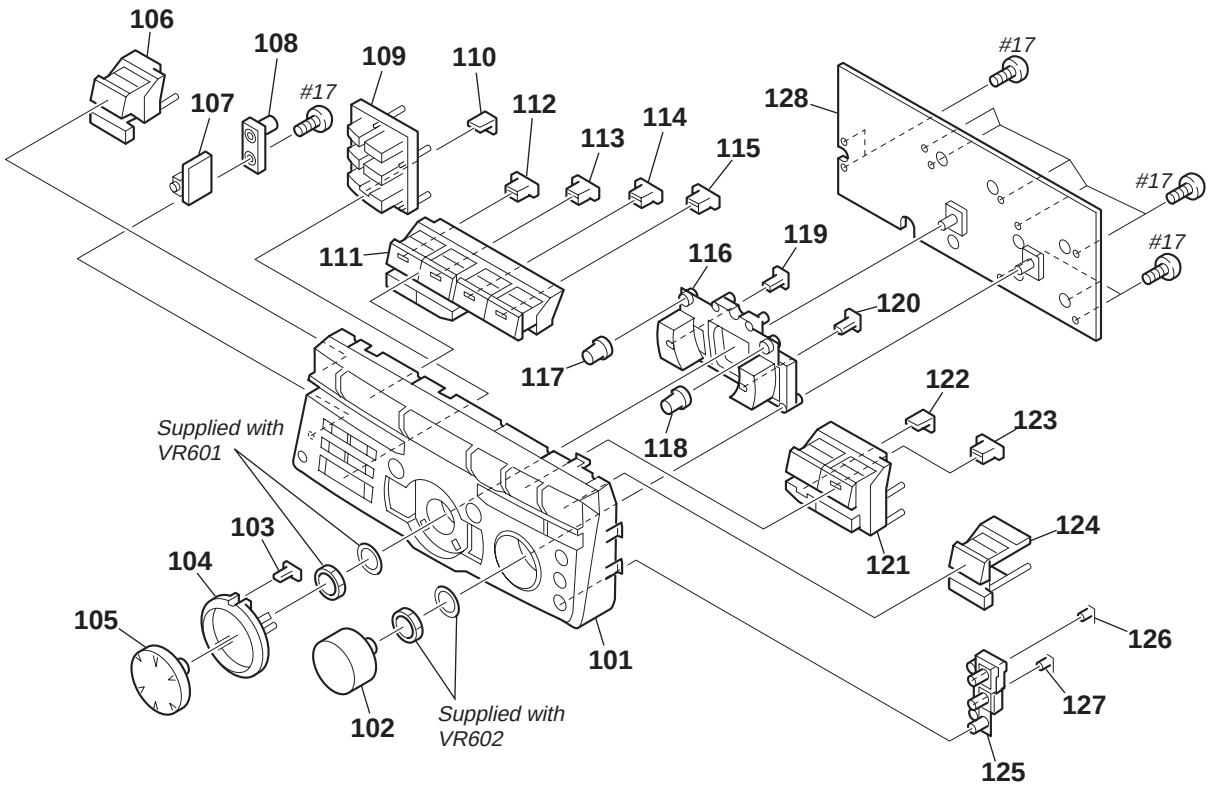
8-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remarks
51	4-223-020-01	PANEL (A), FRONT	
52	4-220-602-01	RUBBER, FOOT	
53	4-223-029-01	SPRING (B), EJECT	
54	4-223-028-01	SPRING (A), EJECT	
55	4-223-014-01	DOOR(B), CASS	
56	4-223-013-01	DOOR(A), CASS	
57	4-223-026-01	HOLDER (A), CASS	
58	4-223-027-01	HOLDER (B), CASS	
59	4-223-016-01	WINDOW (B), CASS	
60	4-223-015-01	WINDOW (A), CASS	
61	4-223-012-01	WINDOW, DISPLAY	
62	4-223-021-01	BUTTON, CD DISC	
63	A-4426-691-A	KEY BOARD, COMPLETE	
64	4-223-025-01	BRACKET, CD PC BOARD	
65	4-223-019-01	EMBLEM, LOGO	

Ref. No.	Part No.	Description	Remarks
66	4-223-022-01	LENS(1), CD DISC	
67	4-223-023-01	LENS(2), CD DISC	
68	4-223-024-01	LENS(3), CD DISC	
69	1-675-353-11	SENSOR BOARD	
70	A-4426-956-A	FLD BOARD, COMPLETE (GRX40AV:AUS,SA)	
70	A-4426-960-A	FLD BOARD, COMPLETE (RXD6AV)	
70	A-4426-958-A	FLD BOARD, COMPLETE (GRX40AV:MX)	
71	1-769-273-11	WIRE(FLAT TYPE) (22 CORE)	
72	1-783-579-11	WIRE(FLAT TYPE) (16 CORE)	
73	1-772-164-11	DECK, MECH	
74	4-220-629-01	LEVER, EJECT	
75	4-220-628-01	SPRING, EJECT LEVER	
76	4-220-622-01	DAMPER (GRY), GEAR	
77	4-223-031-01	SPRING (L), PUSHING	
78	4-223-032-01	SPRING (R), PUSHING	

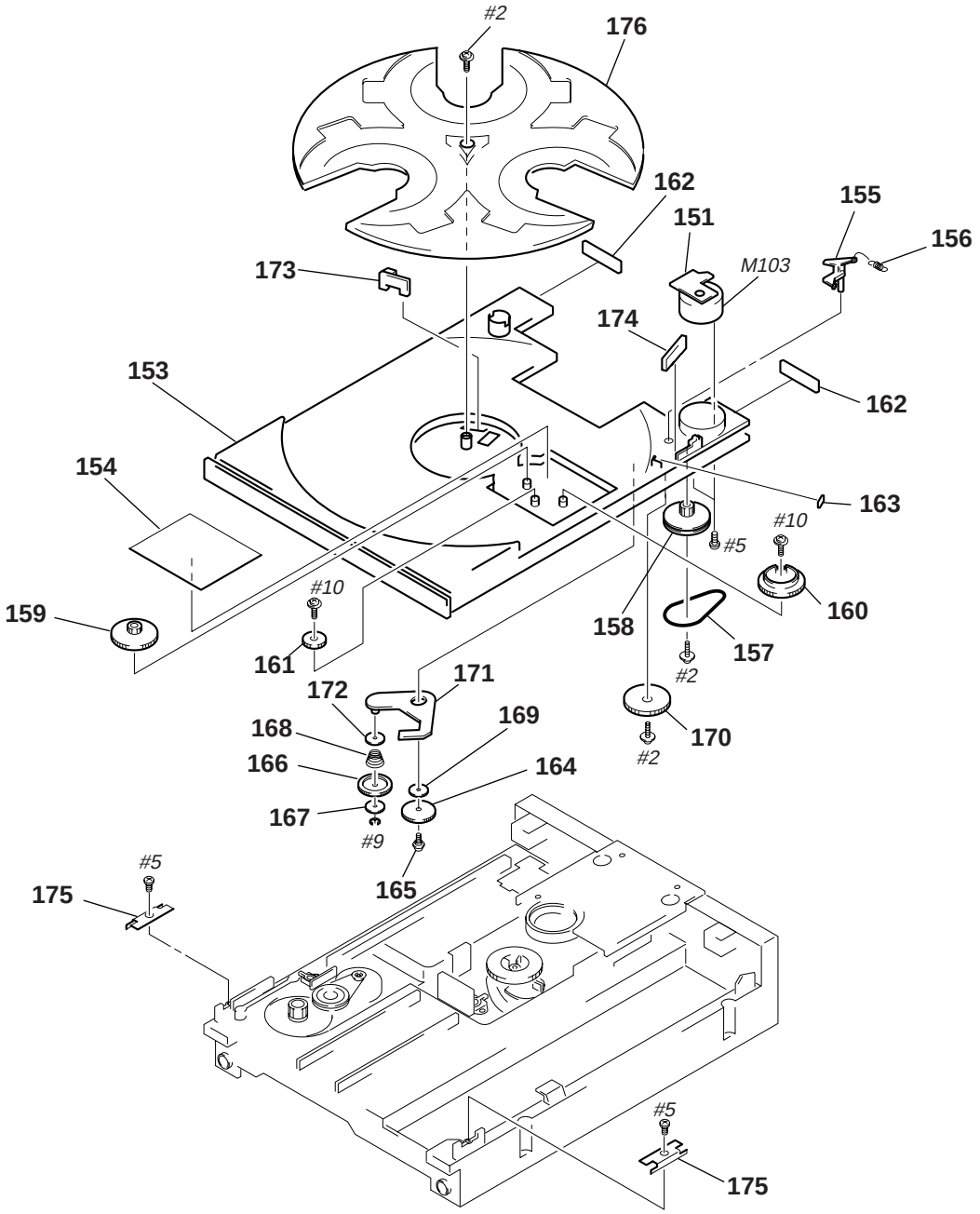
8-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remarks
101	4-223-034-01	PANEL (B), FRONT	
102	4-223-057-01	KNOB, VOLUME	
103	4-223-046-01	LENS, JOG RING	
104	4-223-045-01	RING, JOG	
105	4-223-044-01	KNOB, JOG	
106	4-223-055-01	BUTTON, FUNCTION	
107	4-223-058-01	HOLDER, H/P JACK	
108	1-675-355-11	H/P BOARD	
109	4-223-042-01	BUTTON, PROLOGIC	
110	4-223-043-01	LENS, PROLOGIC	
111	4-223-035-01	BUTTON, TAPE PLAY	
112	4-223-033-01	LENS (1), TAPE PLAY	
113	4-223-036-01	LENS (2), TAPE PLAY	
114	4-223-037-01	LENS (3), TAPE PLAY	

Ref. No.	Part No.	Description	Remarks
115	4-223-038-01	LENS (4), TAPE PLAY	
116	4-223-054-01	BUTTON, SKIP (+/-)	
117	4-223-047-01	KNOB, GROOVE	
118	4-223-048-01	KNOB, ENTER	
119	4-223-050-01	LENS, SKIP (-)	
120	4-223-049-01	LENS, SKIP (+)	
121	4-223-039-01	BUTTON, CD PLAY	
122	4-223-040-01	LENS, DSP	
123	4-223-041-01	LENS, CD PLAY	
124	4-223-056-01	BUTTON, TUNER/BAND	
125	4-223-051-01	BUTTON, CD SYNC	
126	4-223-052-01	LENS, RECORD	
127	4-223-053-01	LENS, PAUSE	
128	A-4426-690-A	FRONT BOARD, COMPLETE	

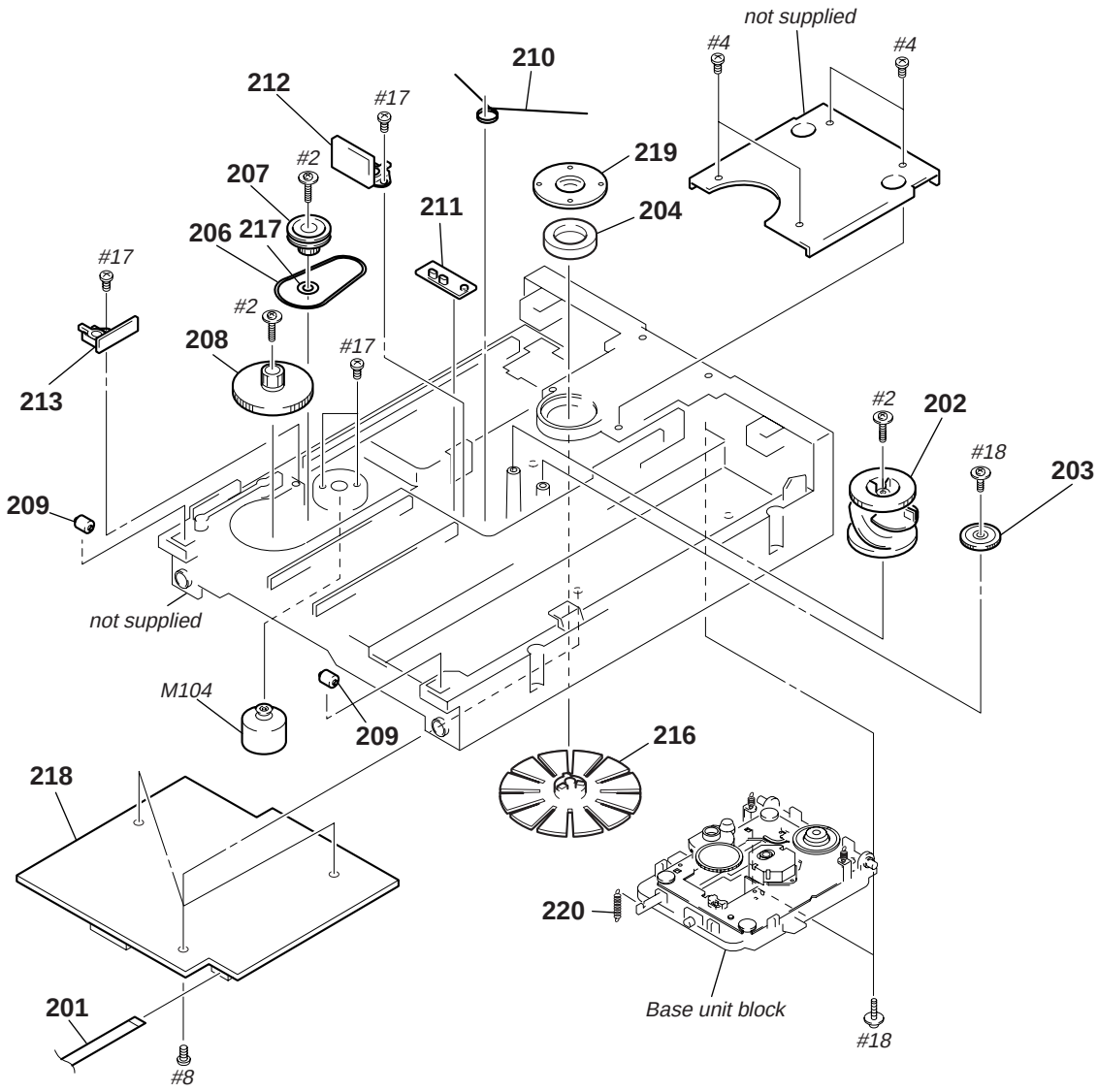
8-4. CD MECHANISM DECK SECTION-1



Ref. No.	Part No.	Description	Remarks
151	1-674-792-11	MOTOR BOARD	
153	4-221-891-01	BASE, CHANGER	
154	4-221-895-01	SHEET, BLIND	
155	4-221-896-01	LEVER, SENSOR SW	
156	4-992-182-01	SPRING, SENSOR (SW) LEVER	
157	4-992-170-01	BELT, LOADING	
158	4-992-171-01	PULLEY, GEAR	
159	4-221-894-01	GEAR, TR	
160	4-221-892-01	GEAR, TR LOCK	
161	4-221-893-01	GEAR (C), RELAY	
162	4-992-187-01	CUSHION	
163	4-992-186-01	CUSHION, SW LEVER	
164	4-992-173-01	GEAR (B), RELAY	

Ref. No.	Part No.	Description	Remarks
165	4-992-183-01	SCREW, RELAY GEAR (B)	
166	4-992-174-01	GEAR, CHANGE	
167	4-992-184-01	WASHER, CHANGE GEAR	
168	4-992-176-01	SPRING, CHANGE GEAR	
169	4-992-185-01	WASHER, CHANGE PLATE	
170	4-992-172-01	GEAR (A), RELAY	
171	4-221-902-01	PLATE, T/T	
172	4-992-201-01	WASHER, POLYETHYLENE	
173	1-674-789-11	SW(B) BOARD	
174	1-674-788-11	SW(A) BOARD	
* 175	4-993-034-01	GUIDE, RAIL	
176	4-221-901-01	TABLE, TURN	
M103	X-4948-765-1	MOTOR ASSY (TURN TABLE)	

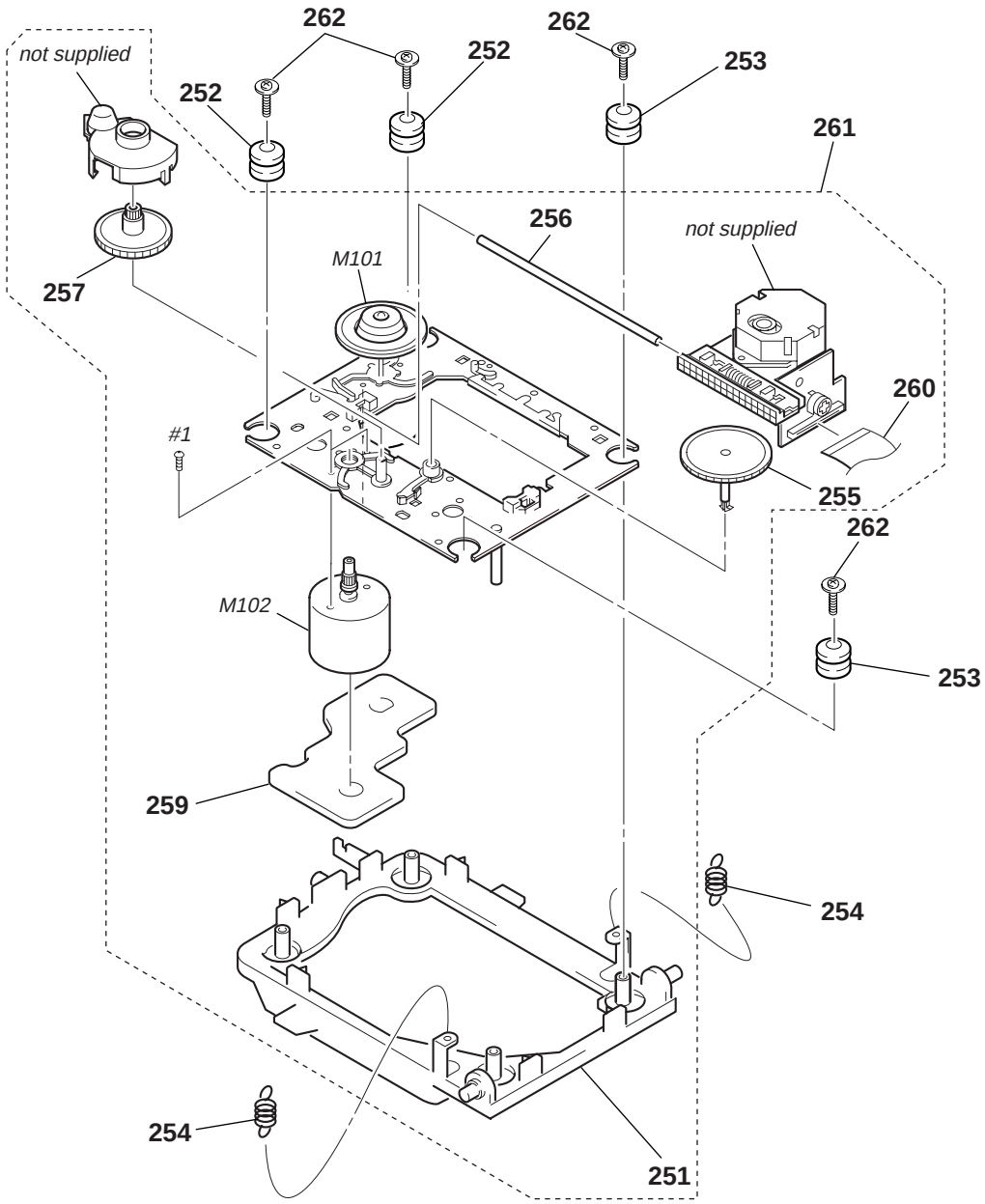
8-5. CD MECHANISM DECK SECTION-2



Ref. No.	Part No.	Description	Remarks
201	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
202	4-221-897-01	CAM, UD	
203	4-992-191-01	UD-GEAR	
204	4-992-195-01	MAGNET	
206	4-992-197-01	BELT, LOADING GEAR	
207	4-992-198-01	PULLEY (B), GEAR	
208	4-992-199-01	GEAR, SLIDE	
209	4-992-200-01	ROLLER	
210	4-992-192-01	SPRING, BRAKE CAM	

Ref. No.	Part No.	Description	Remarks
211	4-992-193-01	LEVER, SW	
212	1-674-791-11	SW(D) BOARD	
213	1-674-790-11	SW(C) BOARD	
215	4-992-201-01	WASHER, POLYETHYLENE	
216	4-221-898-01	HOLDER, MAGNET	
218	A-4426-391-A	CDDECORD BOARD, COMPLETE	
219	4-221-900-01	COVER, MAGNET	
220	4-221-903-01	SPRING, MECHANICAL BASE	
M104	X-4948-766-1	MOTOR ASSY (A) (TRAY)	

8-6. BASE UNIT SECTION (KSM-213ECM)



Ref. No.	Part No.	Description	Remarks
251	4-992-164-01	BASE, KSM MECHANICAL	
252	4-992-165-01	DAMPER (GREEN)	
253	4-992-166-01	DAMPER (RED)	
254	4-992-167-01	SPRING, MECHANICAL BASE	
255	2-626-907-01	GEAR (A)(S)	
256	2-626-908-01	SHAFT, SLED	

Ref. No.	Part No.	Description	Remarks
257	2-627-003-02	GEAR (B)	
259	1-639-678-12	MOTOR (6P)(S) BOARD	
260	1-783-740-11	WIRE (FLAT TYPE)	
⚠261	8-820-054-03	OPTICAL PICK-UP KSM-213ECM/C2NP	
262	3-319-501-51	CREW (+ PTPWH) (2.6 × 16)	
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)	
M102	X-2625-769-1	MOTOR ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AMP

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Abbreviation
  MX : Mexican model
  SA : South African model
  AED : North European model
  G : German model
  AUS : Australian model
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
	A-4426-701-A	AMP BOARD, COMPLETE			
		**********			
*	1-533-213-31	HOLDER, FUSE			
		< CAPACITOR >			
C501	1-161-494-00	CERAMIC	0.022uF		25V
C502	1-161-494-00	CERAMIC	0.022uF		25V
C503	1-126-943-11	ELECT	2200uF	20%	25V
C504	1-126-934-11	ELECT	220uF	20%	16V
C505	1-161-494-00	CERAMIC	0.022uF		25V
C506	1-161-494-00	CERAMIC	0.022uF		25V
C507	1-126-935-11	ELECT	470uF	20%	16V
C508	1-104-665-11	ELECT	100uF	20%	10V
C509	1-161-494-00	CERAMIC	0.022uF		25V
C510	1-161-494-00	CERAMIC	0.022uF		25V
C511	1-126-925-11	ELECT	470uF	20%	10V
C512	1-161-494-00	CERAMIC	0.022uF		25V
C513	1-161-494-00	CERAMIC	0.022uF		25V
C514	1-126-960-11	ELECT	1uF	20%	50V
C515	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C516	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C517	1-109-953-11	ELECT	2.2uF	20%	50V
C518	1-109-953-11	ELECT	2.2uF	20%	50V
C519	1-162-207-31	CERAMIC	22PF	5%	50V
C520	1-162-207-31	CERAMIC	22PF	5%	50V
C521	1-137-399-11	FILM	0.1uF	5%	100V
C522	1-137-399-11	FILM	0.1uF	5%	100V
C523	1-126-966-11	ELECT	33uF	20%	16V
C524	1-126-966-11	ELECT	33uF	20%	16V
C525	1-161-494-00	CERAMIC	0.022uF		25V
C526	1-161-494-00	CERAMIC	0.022uF		25V
C527	1-126-961-11	ELECT	2.2uF	20%	50V
C528	1-126-964-11	ELECT	10uF	20%	50V
C529	1-126-964-11	ELECT	10uF	20%	50V
C530	1-128-582-11	ELECT	10uF	20%	63V
C531	1-128-582-11	ELECT	10uF	20%	63V
C532	1-128-551-11	ELECT	22uF	20%	25V
C593	1-162-282-31	CERAMIC	100PF	10%	50V
C594	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
* CN501	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D501	8-719-031-85	DIODE 1N4002L			
D502	8-719-031-85	DIODE 1N4002L			
D503	8-719-031-85	DIODE 1N4002L			
D504	8-719-031-85	DIODE 1N4002L			
D505	8-719-031-85	DIODE 1N4002L			

Ref. No.	Part No.	Description			Remarks
D506	8-719-010-76	DIODE UZ-13BS			
D507	8-719-110-08	DIODE UZ-8.2BS			
D508	8-719-991-33	DIODE 1SS133T-77			
D509	8-719-991-33	DIODE 1SS133T-77			
D510	8-719-991-33	DIODE 1SS133T-77			
D511	8-719-991-33	DIODE 1SS133T-77			
		< FUSE >			
⚠F501	1-532-388-31	FUSE, TIME LAG 2A 250V (GRX40AV:AUS,SA/RXD6AV)			
⚠F501	1-576-104-11	FUSE 2A/250V (GRX40AV:MX)			
		< IC >			
IC501	8-749-015-44	IC STK407-070E			
		< TRANSISTOR >			
Q501	8-729-822-89	TRANSISTOR 2SD1667			
Q502	8-729-188-23	TRANSISTOR 2SD882-P			
Q503	8-729-184-53	TRANSISTOR 2SC1841-EA			
Q504	8-729-184-53	TRANSISTOR 2SC1841-EA			
Q505	8-729-140-82	TRANSISTOR 2SA988-EA			
		< RESISTOR >			
R501	1-249-401-11	CARBON	47	5%	1/4W F
R502	1-249-399-11	CARBON	33	5%	1/4W F
R503	1-247-855-11	CARBON	10K	5%	1/4W
R504	1-247-863-11	CARBON	22K	5%	1/4W
R505	1-247-855-11	CARBON	10K	5%	1/4W
R506	1-249-438-11	CARBON	56K	5%	1/4W
R507	1-249-438-11	CARBON	56K	5%	1/4W
R508	1-249-420-11	CARBON	1.8K	5%	1/4W F
R509	1-249-420-11	CARBON	1.8K	5%	1/4W F
R510	1-249-438-11	CARBON	56K	5%	1/4W
R511	1-249-438-11	CARBON	56K	5%	1/4W
R512	1-260-072-11	CARBON	4.7	5%	1/2W
R513	1-260-072-11	CARBON	4.7	5%	1/2W
R514	1-247-879-11	CARBON	100K	5%	1/4W
R515	1-247-879-11	CARBON	100K	5%	1/4W
R516	1-249-417-11	CARBON	1K	5%	1/4W F
R517	1-249-417-11	CARBON	1K	5%	1/4W F
R518	1-249-431-11	CARBON	15K	5%	1/4W
R519	1-249-431-11	CARBON	15K	5%	1/4W
R520	1-220-755-11	METAL	0.22	10%	2W
R521	1-220-755-11	METAL	0.22	10%	2W
R522	1-249-430-11	CARBON	12K	5%	1/4W
R523	1-247-839-11	CARBON	2.2K	5%	1/4W
R524	1-249-430-11	CARBON	12K	5%	1/4W
R534	1-247-862-11	CARBON	20K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R535	1-249-405-11	CARBON	100	5%	1/4W F
R536	1-249-405-11	CARBON	100	5%	1/4W F
R576	1-247-871-11	CARBON	47K	5%	1/4W

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A-4426-391-A CD DECORD BOARD, COMPLETE
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< CAPACITOR >

C701	1-104-664-11	ELECT	47uF	20%	16V
C702	1-137-399-11	FILM	0.1uF	5%	100V
C703	1-137-399-11	FILM	0.1uF	5%	100V
C704	1-137-352-11	FILM	0.033uF	5%	100V
C705	1-137-393-11	FILM	0.01uF	5%	100V
C706	1-128-551-11	ELECT	22uF	20%	25V
C707	1-162-203-31	CERAMIC	15PF	5%	50V
C708	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C712	1-162-306-11	CERAMIC	0.01uF	20%	16V
C713	1-136-291-11	FILM	0.0068uF	5%	100V
C714	1-137-397-11	FILM	0.047uF	5%	100V
C715	1-161-494-00	CERAMIC	0.022uF		25V
C716	1-137-399-11	FILM	0.1uF	5%	100V
C717	1-104-665-11	ELECT	100uF	20%	10V
C718	1-104-665-11	ELECT	100uF	20%	10V
C719	1-137-399-11	FILM	0.1uF	5%	100V
C720	1-137-389-11	FILM	0.0022uF	5%	100V
C721	1-137-399-11	FILM	0.1uF	5%	100V
C722	1-137-399-11	FILM	0.1uF	5%	100V
C723	1-137-399-11	FILM	0.1uF	5%	100V
C724	1-107-713-11	ELECT	4.7uF	20%	50V
C725	1-137-352-11	FILM	0.033uF	5%	100V
C726	1-137-462-11	FILM	0.018uF	5%	100V
C727	1-162-199-31	CERAMIC	10PF	5%	50V
C728	1-137-398-11	FILM	0.068uF	5%	100V
C729	1-126-962-11	ELECT	3.3uF	20%	50V
C730	1-162-215-31	CERAMIC	47PF	5%	50V
C731	1-164-159-11	CERAMIC	0.1uF		50V
C732	1-161-494-00	CERAMIC	0.022uF		25V
C733	1-104-665-11	ELECT	100uF	20%	10V
C734	1-161-494-00	CERAMIC	0.022uF		25V
C735	1-126-925-11	ELECT	470uF	20%	10V
C736	1-162-294-31	CERAMIC	0.001uF	10%	50V
C737	1-162-306-11	CERAMIC	0.01uF	20%	16V
C738	1-164-159-11	CERAMIC	0.1uF		50V
C740	1-126-925-11	ELECT	470uF	20%	10V
C741	1-161-494-00	CERAMIC	0.022uF		25V
C742	1-161-494-00	CERAMIC	0.022uF		25V
C743	1-126-927-11	ELECT	2200uF	20%	10V
C744	1-162-306-11	CERAMIC	0.01uF	20%	16V
C745	1-162-306-11	CERAMIC	0.01uF	20%	16V
C746	1-107-713-11	ELECT	4.7uF	20%	35V
C746A	1-126-963-11	ELECT	4.7uF	20%	50V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-126-964-11	ELECT	10uF	20%	50V
C753	1-161-494-00	CERAMIC	0.022uF		25V
C754	1-104-665-11	ELECT	100uF	20%	10V
C755	1-161-494-00	CERAMIC	0.022uF		25V
C756	1-136-173-00	FILM	0.47uF	5%	50V
C757	1-162-306-11	CERAMIC	0.01uF	20%	16V
C759	1-162-290-31	CERAMIC	470PF	10%	50V
C760	1-162-286-31	CERAMIC	220PF	10%	50V
C761	1-136-169-00	FILM	0.22uF	5%	50V
C762	1-137-393-11	FILM	0.01uF	5%	100V
C763	1-161-494-00	CERAMIC	0.022uF		25V
C764	1-104-665-11	ELECT	100uF	20%	10V
C765	1-162-294-31	CERAMIC	0.001uF	10%	50V
C766	1-162-294-31	CERAMIC	0.001uF	10%	50V
C767	1-162-294-31	CERAMIC	0.001uF	10%	50V
C768	1-162-294-31	CERAMIC	0.001uF	10%	50V
C769	1-162-294-31	CERAMIC	0.001uF	10%	50V
C770	1-164-159-11	CERAMIC	0.1uF		50V
C771	1-161-494-00	CERAMIC	0.022uF		25V
C772	1-161-494-00	CERAMIC	0.022uF		25V
C773	1-102-961-00	CERAMIC	27PF	5%	50V
C774	1-102-961-00	CERAMIC	27PF	5%	50V
C777	1-162-294-31	CERAMIC	0.001uF	10%	50V
C778	1-162-294-31	CERAMIC	0.001uF	10%	50V
C779	1-162-282-31	CERAMIC	100PF	10%	50V
C780	1-162-294-31	CERAMIC	0.001uF	10%	50V
C781	1-162-284-31	CERAMIC	150PF	10%	50V
C782	1-162-284-31	CERAMIC	150PF	10%	50V
C783	1-162-292-31	CERAMIC	680PF	10%	50V
C784	1-162-292-31	CERAMIC	680PF	10%	50V
C785	1-126-963-11	ELECT	4.7uF	20%	50V
C786	1-126-963-11	ELECT	4.7uF	20%	50V
C787	1-162-294-31	CERAMIC	0.001uF	10%	50V
C788	1-162-294-31	CERAMIC	0.001uF	10%	50V
C789	1-161-494-00	CERAMIC	0.022uF		25V
C790	1-126-927-11	ELECT	2200uF	20%	10V
C791	1-164-159-11	CERAMIC	0.1uF		50V
C792	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C793	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C794	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C795	1-164-159-11	CERAMIC	0.1uF		50V
C797	1-161-494-00	CERAMIC	0.022uF		25V
C798	1-126-963-11	ELECT	4.7uF	20%	50V
C799	1-161-494-00	CERAMIC	0.022uF		25V
C771A	1-161-494-00	CERAMIC	0.022uF		25V
C779A	1-126-960-11	ELECT	1uF	20%	50V
C780A	1-126-960-11	ELECT	1uF	20%	50V
C790A	1-161-494-00	CERAMIC	0.022uF		25V
C799B	1-104-665-11	ELECT	100uF	20%	10V

< CONNECTOR >

CN701	1-580-475-11	SOCKET, CONNECTOR 16P	
CN705	1-568-822-21	SOCKET, CONNECTOR 22P	
* CN706	1-568-824-11	SOCKET, CONNECTOR 5P	
* CN707	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	

< DIODE >

D703	8-719-991-33	DIODE 1SS133T-77
D707	8-719-991-33	DIODE 1SS133T-77
D708	8-719-991-33	DIODE 1SS133T-77
D797A	8-719-991-33	DIODE 1SS133T-77

< IC >

IC701	8-752-082-14	IC CXA1992BR
IC702	8-752-384-13	IC CXD2589Q
IC703	8-759-579-80	IC BA5936S
IC704	8-759-234-75	IC TC74HC4094AP
IC705	8-759-505-55	IC NJM4558L

CD DECORD

Ref. No.	Part No.	Description				Remarks
		< COIL >				
L704	1-410-509-11	INDUCTOR	10uH			
L705	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q701	8-729-195-23	TRANSISTOR	2SA952-L			
Q702	8-729-195-23	TRANSISTOR	2SA952-L			
Q703	8-729-195-23	TRANSISTOR	2SA952-L			
Q705	8-729-194-57	TRANSISTOR	2SC945TP-P			
Q706	8-729-194-57	TRANSISTOR	2SC945TP-P			
Q707	8-729-195-23	TRANSISTOR	2SA952-L			
Q708	8-729-195-23	TRANSISTOR	2SA952-L			
		< RESISTOR >				
R701	1-249-393-11	CARBON	10	5%	1/4W	F
R704	1-247-862-11	CARBON	20K	5%	1/4W	
R705	1-247-855-11	CARBON	10K	5%	1/4W	
R706	1-249-430-11	CARBON	12K	5%	1/4W	
R707	1-247-903-00	CARBON	1M	5%	1/4W	
R710	1-247-887-00	CARBON	220K	5%	1/4W	
R711	1-247-883-00	CARBON	150K	5%	1/4W	
R713	1-247-879-11	CARBON	100K	5%	1/4W	
R714	1-249-439-11	CARBON	68K	5%	1/4W	
R715	1-249-439-11	CARBON	68K	5%	1/4W	
R716	1-249-439-11	CARBON	68K	5%	1/4W	
R717	1-249-439-11	CARBON	68K	5%	1/4W	
R718	1-247-879-11	CARBON	100K	5%	1/4W	
R719	1-247-883-00	CARBON	150K	5%	1/4W	
R720	1-247-891-00	CARBON	330K	5%	1/4W	
R721	1-247-885-00	CARBON	180K	5%	1/4W	
R722	1-247-807-11	CARBON	100	5%	1/4W	
R723	1-247-855-11	CARBON	10K	5%	1/4W	
R724	1-247-855-11	CARBON	10K	5%	1/4W	
R725	1-247-899-11	CARBON	680K	5%	1/4W	
R726	1-249-440-11	CARBON	82K	5%	1/4W	
R727	1-247-896-11	CARBON	510K	5%	1/4W	
R728	1-247-807-11	CARBON	100	5%	1/4W	
R729	1-249-439-11	CARBON	68K	5%	1/4W	
R730	1-247-871-11	CARBON	47K	5%	1/4W	
R731	1-249-417-11	CARBON	1K	5%	1/4W	F
R732	1-247-883-00	CARBON	150K	5%	1/4W	
R733	1-249-430-11	CARBON	12K	5%	1/4W	
R734	1-247-876-11	CARBON	75K	5%	1/4W	
R735	1-247-879-11	CARBON	100K	5%	1/4W	
R736	1-247-807-11	CARBON	100	5%	1/4W	
R737	1-249-417-11	CARBON	1K	5%	1/4W	F
R739	1-247-807-11	CARBON	100	5%	1/4W	
R740	1-249-431-11	CARBON	15K	5%	1/4W	
R741	1-249-431-11	CARBON	15K	5%	1/4W	
R742	1-249-385-11	CARBON	2.2	5%	1/6W	F
R743	1-247-863-11	CARBON	22K	5%	1/4W	
R744	1-247-863-11	CARBON	22K	5%	1/4W	
R745	1-247-863-11	CARBON	22K	5%	1/4W	
R746	1-249-432-11	CARBON	18K	5%	1/4W	
R747	1-249-432-11	CARBON	18K	5%	1/4W	
R748	1-247-847-11	CARBON	4.7K	5%	1/4W	
R751	1-247-863-11	CARBON	22K	5%	1/4W	
R752	1-247-867-11	CARBON	33K	5%	1/4W	
R753	1-249-428-11	CARBON	8.2K	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
R755	1-247-871-11	CARBON	47K	5%	1/4W	
R756	1-247-867-11	CARBON	33K	5%	1/4W	
R758	1-247-871-11	CARBON	47K	5%	1/4W	
R759	1-247-843-11	CARBON	3.3K	5%	1/4W	
R760	1-249-417-11	CARBON	1K	5%	1/4W	F
R761	1-247-855-11	CARBON	10K	5%	1/4W	
R762	1-247-903-00	CARBON	1M	5%	1/4W	
R763	1-247-887-00	CARBON	220K	5%	1/4W	
R764	1-247-855-11	CARBON	10K	5%	1/4W	
R765	1-247-871-11	CARBON	47K	5%	1/4W	
R766	1-249-417-11	CARBON	1K	5%	1/4W	F
R767	1-249-417-11	CARBON	1K	5%	1/4W	F
R771	1-249-417-11	CARBON	1K	5%	1/4W	F
R773	1-249-442-11	CARBON	510	5%	1/4W	
R774	1-247-903-00	CARBON	1M	5%	1/4W	
R775	1-247-867-11	CARBON	33K	5%	1/4W	
R777	1-247-839-11	CARBON	2.2K	5%	1/4W	
R778	1-247-839-11	CARBON	2.2K	5%	1/4W	
R779	1-247-839-11	CARBON	2.2K	5%	1/4W	
R780	1-247-839-11	CARBON	2.2K	5%	1/4W	
R781	1-249-430-11	CARBON	12K	5%	1/4W	
R782	1-249-430-11	CARBON	12K	5%	1/4W	
R783	1-249-430-11	CARBON	12K	5%	1/4W	
R784	1-249-430-11	CARBON	12K	5%	1/4W	
R785	1-249-430-11	CARBON	12K	5%	1/4W	
R786	1-249-430-11	CARBON	12K	5%	1/4W	
R787	1-247-839-11	CARBON	2.2K	5%	1/4W	
R788	1-247-839-11	CARBON	2.2K	5%	1/4W	
R789	1-247-847-11	CARBON	4.7K	5%	1/4W	
R790	1-247-847-11	CARBON	4.7K	5%	1/4W	
R795	1-249-417-11	CARBON	1K	5%	1/4W	F
R796	1-249-417-11	CARBON	1K	5%	1/4W	F
R797	1-249-417-11	CARBON	1K	5%	1/4W	F
R710A	1-249-417-11	CARBON	1K	5%	1/4W	F
R747A	1-247-855-11	CARBON	10K	5%	1/4W	
R748A	1-249-417-11	CARBON	1K	5%	1/4W	F
R766A	1-249-417-11	CARBON	1K	5%	1/4W	F
R767A	1-249-417-11	CARBON	1K	5%	1/4W	F
R768A	1-249-417-11	CARBON	1K	5%	1/4W	F
R778L	1-247-847-11	CARBON	4.7K	5%	1/4W	
R778R	1-247-847-11	CARBON	4.7K	5%	1/4W	
R780A	1-249-417-11	CARBON	1K	5%	1/4W	F
R795A	1-247-855-11	CARBON	10K	5%	1/4W	
R796A	1-247-855-11	CARBON	10K	5%	1/4W	
R798L	1-247-855-11	CARBON	10K	5%	1/4W	
R798R	1-247-855-11	CARBON	10K	5%	1/4W	
		< VIBRATOR >				
XTL01	1-567-908-11	VIBRATOR, CRYSTAL 16.9344MHz				

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Ref. No.	Part No.	Description			Remarks
	A-4426-956-A	FLD BOARD, COMPLETE (GRX40AV:AUS,SA)			
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	A-4426-960-A	FLD BOARD, COMPLETE (RXD6AV)			
		**********			
	A-4426-958-A	FLD BOARD, COMPLETE (GRX40AV:MX)			
		**********			
		< CAPACITOR >			
C601	1-126-926-11	ELECT	1000uF	20%	10V
C602	1-161-494-00	CERAMIC	0.022uF		25V
C603	1-164-159-11	CERAMIC	0.1uF		50V
C604	1-126-933-11	ELECT	100uF	20%	16V
C605	1-104-664-11	ELECT	47uF	20%	16V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C608	1-126-958-11	ELECT	0.33uF	20%	50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-126-964-11	ELECT	10uF	20%	50V
C611	1-161-494-00	CERAMIC	0.022uF		25V
C612	1-126-160-11	ELECT	1uF	20%	50V
C613	1-102-960-00	CERAMIC	24PF	5%	50V
C614	1-102-960-00	CERAMIC	24PF	5%	50V
C615	1-126-964-11	ELECT	10uF	20%	50V
C616	1-164-206-41	CERAMIC	0.047uF	99%	50V
C617	1-162-286-31	CERAMIC	220PF	10%	50V
C618	1-162-286-31	CERAMIC	220PF	10%	50V
C619	1-162-286-31	CERAMIC	220PF	10%	50V
C620	1-162-286-31	CERAMIC	220PF	10%	50V
C622	1-162-286-31	CERAMIC	220PF	10%	50V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C624	1-162-286-31	CERAMIC	220PF	10%	50V
C625	1-162-286-31	CERAMIC	220PF	10%	50V
C626	1-162-286-31	CERAMIC	220PF	10%	50V
C629	1-126-934-11	ELECT	220uF	20%	16V
C630	1-162-286-31	CERAMIC	220PF	10%	50V
C632	1-126-957-11	ELECT	0.22uF	20%	50V
C633	1-130-489-11	MYLAR	0.033uF	5%	50V
C634	1-126-957-11	ELECT	0.22uF	20%	50V
C635	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C636	1-126-957-11	ELECT	0.22uF	20%	50V
C637	1-126-957-11	ELECT	0.22uF	20%	50V
C638	1-162-306-11	CERAMIC	0.01uF	20%	16V
C639	1-126-959-11	ELECT	0.47uF	20%	50V
C640	1-126-957-11	ELECT	0.22uF	20%	50V
C641	1-164-206-41	CERAMIC	0.047uF	99%	50V
C642	1-126-957-11	ELECT	0.22uF	20%	50V
C643	1-162-293-31	CERAMIC	820PF	10%	50V
C646	1-124-259-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
CN101	1-793-583-11	HOUSING, CONNECTOR 16P			
CN102	1-793-583-11	HOUSING, CONNECTOR 16P			
CN603	1-568-835-21	SOCKET, CONNECTOR 16P			
CN605	1-568-822-21	SOCKET, CONNECTOR 22P			
		< DIODE >			
D601	8-719-200-02	DIODE 1N4002			
D602	8-719-200-02	DIODE 1N4002			
D603	8-719-911-19	DIODE 1SS133T-72			
D604	8-719-911-19	DIODE 1SS133T-72			
D605	8-719-911-19	DIODE 1SS133T-72			

Ref. No.	Part No.	Description	Remarks
D608	8-719-911-19	DIODE 1SS133T-72	
D609	8-719-911-19	DIODE 1SS133T-72 (RXD6AV)	
D610	8-719-911-19	DIODE 1SS133T-72 (GRX40AV)	
D611	8-719-911-19	DIODE 1SS133T-72 (RXD6AV)	
D612	8-719-911-19	DIODE 1SS133T-72 (GRX40AV)	
D613	8-719-911-19	DIODE 1SS133T-72	
D615	8-719-911-19	DIODE 1SS133T-72	
D617	8-719-911-19	DIODE 1SS133T-72	
D618	8-719-911-19	DIODE 1SS133T-72	
D619	8-719-911-19	DIODE 1SS133T-72	
D620	8-719-911-19	DIODE 1SS133T-72	
D621	8-719-911-19	DIODE 1SS133T-72	
D622	8-719-911-19	DIODE 1SS133T-72	
D623	8-719-911-19	DIODE 1SS133T-72	
D624	8-719-911-19	DIODE 1SS133T-72	
D625	8-719-911-19	DIODE 1SS133T-72	
D626	8-719-911-19	DIODE 1SS133T-72	
D627	8-719-911-19	DIODE 1SS133T-72	
D628	8-719-911-19	DIODE 1SS133T-72	
D629	8-719-911-19	DIODE 1SS133T-72	
D630	8-719-911-19	DIODE 1SS133T-72	
		< FLUORESCENT INDICATOR >	
FLD601	1-517-731-21	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC601	8-752-905-80	IC CXP82040-109Q	
IC602	8-759-234-75	IC TC74HC4094AP	
IC603	8-759-916-52	IC TC74HC165AP	
		< COIL >	
L601	1-408-096-00	COIL 470uH	
		< TRANSISTOR >	
Q601	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q602	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q603	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q604	8-729-119-76	TRANSISTOR 2SA733-P	
Q608	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q609	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q610	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q611	8-729-993-43	TRANSISTOR 2SA934R	
Q612	8-729-993-43	TRANSISTOR 2SA934R	
Q613	8-729-993-43	TRANSISTOR 2SA934R	
		< RESISTOR >	

R601	1-247-871-11	CARBON	47K	5%	1/4W	
R602	1-249-417-11	CARBON	1K	5%	1/4W	F
R603	1-247-871-11	CARBON	47K	5%	1/4W	
R604	1-249-417-11	CARBON	1K	5%	1/4W	F
R605	1-247-871-11	CARBON	47K	5%	1/4W	
R606	1-249-417-11	CARBON	1K	5%	1/4W	F
R607	1-249-431-11	CARBON	15K	5%	1/4W	
R608	1-247-871-11	CARBON	47K	5%	1/4W	
R609	1-247-871-11	CARBON	47K	5%	1/4W	
R613	1-247-855-11	CARBON	10K	5%	1/4W	
R614	1-247-855-11	CARBON	10K	5%	1/4W	
R615	1-247-855-11	CARBON	10K	5%	1/4W	
R616	1-247-855-11	CARBON	10K	5%	1/4W	
R617	1-247-855-11	CARBON	10K	5%	1/4W	
R618	1-247-855-11	CARBON	10K	5%	1/4W	

FLD FRONT

Ref. No.	Part No.	Description			Remarks
R619	1-247-855-11	CARBON	10K	5%	1/4W
R620	1-247-855-11	CARBON	10K	5%	1/4W
R621	1-247-855-11	CARBON	10K	5%	1/4W
R622	1-247-855-11	CARBON	10K	5%	1/4W
R623	1-247-855-11	CARBON	10K	5%	1/4W
R624	1-247-855-11	CARBON	10K	5%	1/4W
R625	1-247-855-11	CARBON	10K	5%	1/4W
R626	1-247-855-11	CARBON	10K	5%	1/4W
R630	1-249-417-11	CARBON	1K	5%	1/4W F
R631	1-247-839-11	CARBON	2.2K	5%	1/4W
R632	1-247-839-11	CARBON	2.2K	5%	1/4W
R633	1-247-839-11	CARBON	2.2K	5%	1/4W
R634	1-247-847-11	CARBON	4.7K	5%	1/4W
R635	1-247-847-11	CARBON	4.7K	5%	1/4W
R636	1-247-847-11	CARBON	4.7K	5%	1/4W
R637	1-247-855-11	CARBON	10K	5%	1/4W
R638	1-249-417-11	CARBON	1K	5%	1/4W F
R639	1-247-847-11	CARBON	4.7K	5%	1/4W
R640	1-247-855-11	CARBON	10K	5%	1/4W
R641	1-249-417-11	CARBON	1K	5%	1/4W F
R642	1-247-847-11	CARBON	4.7K	5%	1/4W
R643	1-247-847-11	CARBON	4.7K	5%	1/4W
R644	1-247-847-11	CARBON	4.7K	5%	1/4W
R645	1-247-847-11	CARBON	4.7K	5%	1/4W
R646	1-247-847-11	CARBON	4.7K	5%	1/4W
R647	1-249-424-11	CARBON	3.9K	5%	1/4W F
R648	1-249-417-11	CARBON	1K	5%	1/4W F
R649	1-249-417-11	CARBON	1K	5%	1/4W F
R650	1-247-863-11	CARBON	22K	5%	1/4W
R651	1-247-863-11	CARBON	22K	5%	1/4W
R652	1-247-847-11	CARBON	4.7K	5%	1/4W
R653	1-247-847-11	CARBON	4.7K	5%	1/4W
R654	1-247-847-11	CARBON	4.7K	5%	1/4W
R655	1-247-855-11	CARBON	10K	5%	1/4W
R656	1-249-417-11	CARBON	1K	5%	1/4W F
R657	1-247-835-11	CARBON	1.5K	5%	1/4W
R658	1-247-887-00	CARBON	220K	5%	1/4W
R659	1-247-871-11	CARBON	47K	5%	1/4W
R660	1-247-895-00	CARBON	470K	5%	1/4W
R661	1-247-871-11	CARBON	47K	5%	1/4W
R662	1-247-895-00	CARBON	470K	5%	1/4W
R664	1-247-871-11	CARBON	47K	5%	1/4W
R665	1-247-895-00	CARBON	470K	5%	1/4W
R666	1-247-835-11	CARBON	1.5K	5%	1/4W
R668	1-247-871-11	CARBON	47K	5%	1/4W
R669	1-247-895-00	CARBON	470K	5%	1/4W
R671	1-249-438-11	CARBON	56K	5%	1/4W
R672	1-247-895-00	CARBON	470K	5%	1/4W
R673	1-247-835-11	CARBON	1.5K	5%	1/4W
R674	1-247-835-11	CARBON	1.5K	5%	1/4W
R675	1-247-871-11	CARBON	47K	5%	1/4W
R676	1-249-407-11	CARBON	150	5%	1/4W F
		< ADJUSTABLE RESISTOR >			
SRF601	1-238-598-11	RES, ADJ, CARBON 2.2K			
		< VIBRATOR >			
X601	1-567-925-11	VIBRATOR, CRYSTAL 10MHz			

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Ref. No.	Part No.	Description			Remarks
	A-4426-690-A	FRONT BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-124-261-00	ELECT	10uF	20%	50V
C702	1-161-494-00	CERAMIC	0.022uF		25V
C703	1-162-286-31	CERAMIC	220PF	10%	50V
C704	1-162-286-31	CERAMIC	220PF	10%	50V
C705	1-162-286-31	CERAMIC	220PF	10%	50V
		< CONNECTOR >			
CN601	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CN602	1-564-713-11	PIN, CONNECTOR (SMALL TYPE)11P			
		< DIODE >			
D631	8-719-911-19	DIODE 1SS133T-72			
		< IC >			
IC701	8-759-275-23	IC BU2092			
IC702	8-759-275-23	IC BU2092			
		< LED >			
LED704	8-719-046-80	LED SML19416W-TP4 (▶II CD)			
LED706	8-719-317-11	LED SEL1710Y (GROOVE)			
LED707	8-719-921-01	LED SEL1110R (ENTER/EXIT)			
LED708	8-719-310-60	LED SEL1510C-C (▶ TAPE A)			
LED709	8-719-310-60	LED SEL1510C-C (◀ TAPE A)			
LED710	8-719-310-60	LED SEL1510C-C (◀ TAPE B)			
LED711	8-719-310-60	LED SEL1510C-C (▶ TAPE B)			
LED712	8-719-921-01	LED SEL1110R (REC)			
LED713	8-719-317-11	LED SEL1710Y (PAUSE)			
LED714	8-719-317-11	LED SEL1710Y (◀◀ –)			
LED715	8-719-317-11	LED SEL1710Y (▶▶ +)			
LED716	8-719-921-01	LED SEL1110R (I◀◀ ▶▶I)			
LED717	8-719-317-11	LED SEL1710Y (DSP)			
LED718	8-719-317-11	LED SEL1710Y (DOLBY PRO LOGIC)			
		< TRANSISTOR >			
Q701	8-729-026-29	TRANSISTOR 2SJ346			
Q702	8-729-026-29	TRANSISTOR 2SJ346			
Q703	8-729-026-29	TRANSISTOR 2SJ346			
Q704	8-729-026-29	TRANSISTOR 2SJ346			
Q705	8-729-026-29	TRANSISTOR 2SJ346			
Q706	8-729-026-29	TRANSISTOR 2SJ346			
Q707	8-729-026-29	TRANSISTOR 2SJ346			
Q708	8-729-026-29	TRANSISTOR 2SJ346			
		< RESISTOR >			
R701	1-249-408-11	CARBON	180	5%	1/4W F
R702	1-249-410-11	CARBON	270	5%	1/4W F
R703	1-249-407-11	CARBON	150	5%	1/4W F
R704	1-249-407-11	CARBON	150	5%	1/4W F
R705	1-249-410-11	CARBON	270	5%	1/4W F
R706	1-249-410-11	CARBON	270	5%	1/4W F
R707	1-249-410-11	CARBON	270	5%	1/4W F
R708	1-249-410-11	CARBON	270	5%	1/4W F
R709	1-249-410-11	CARBON	270	5%	1/4W F
R710	1-249-410-11	CARBON	270	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R711	1-249-407-11	CARBON	150	5%	1/4W F
R712	1-249-407-11	CARBON	150	5%	1/4W F
R713	1-249-407-11	CARBON	150	5%	1/4W F
R714	1-249-407-11	CARBON	150	5%	1/4W F
R715	1-249-407-11	CARBON	150	5%	1/4W F
R716	1-249-407-11	CARBON	150	5%	1/4W F
R717	1-249-410-11	CARBON	270	5%	1/4W F
R718	1-249-410-11	CARBON	270	5%	1/4W F
R719	1-249-410-11	CARBON	270	5%	1/4W F
R720	1-249-410-11	CARBON	270	5%	1/4W F
R721	1-249-410-11	CARBON	270	5%	1/4W F
R722	1-247-827-11	CARBON	680	5%	1/4W
R723	1-249-416-11	CARBON	820	5%	1/4W F
R724	1-249-418-11	CARBON	1.2K	5%	1/4W F
R725	1-247-835-11	CARBON	1.5K	5%	1/4W
R726	1-247-839-11	CARBON	2.2K	5%	1/4W
R727	1-247-843-11	CARBON	3.3K	5%	1/4W
R728	1-247-847-11	CARBON	4.7K	5%	1/4W
R729	1-249-428-11	CARBON	8.2K	5%	1/4W F
R730	1-249-431-11	CARBON	15K	5%	1/4W
R731	1-247-864-11	CARBON	24K	5%	1/4W
R732	1-247-827-11	CARBON	680	5%	1/4W
R733	1-249-416-11	CARBON	820	5%	1/4W F
R734	1-249-418-11	CARBON	1.2K	5%	1/4W F
R735	1-247-835-11	CARBON	1.5K	5%	1/4W
R736	1-247-839-11	CARBON	2.2K	5%	1/4W
R737	1-247-843-11	CARBON	3.3K	5%	1/4W
R738	1-247-847-11	CARBON	4.7K	5%	1/4W
R739	1-249-428-11	CARBON	8.2K	5%	1/4W F
R740	1-249-431-11	CARBON	15K	5%	1/4W
R741	1-247-864-11	CARBON	24K	5%	1/4W
R742	1-247-827-11	CARBON	680	5%	1/4W
R743	1-249-416-11	CARBON	820	5%	1/4W F
R744	1-249-418-11	CARBON	1.2K	5%	1/4W F
R745	1-247-835-11	CARBON	1.5K	5%	1/4W
R746	1-247-839-11	CARBON	2.2K	5%	1/4W
R747	1-247-843-11	CARBON	3.3K	5%	1/4W
R753	1-249-439-11	CARBON	68K	5%	1/4W
R755	1-247-863-11	CARBON	22K	5%	1/4W
R756	1-247-863-11	CARBON	22K	5%	1/4W
R757	1-247-879-11	CARBON	100K	5%	1/4W
R758	1-247-879-11	CARBON	100K	5%	1/4W
R759	1-247-879-11	CARBON	100K	5%	1/4W
R760	1-247-879-11	CARBON	100K	5%	1/4W
R761	1-247-879-11	CARBON	100K	5%	1/4W
R762	1-247-879-11	CARBON	100K	5%	1/4W
R707A	1-247-855-11	CARBON	10K	5%	1/4W
R755A	1-247-879-11	CARBON	100K	5%	1/4W
R756A	1-247-879-11	CARBON	100K	5%	1/4W

< SWITCH >

S707	1-572-647-11	SWITCH, KEY BOARD (CLOCK/TIMER SET)
S708	1-572-647-11	SWITCH, KEY BOARD (TIMER SELECT)
S709	1-572-647-11	SWITCH, KEY BOARD (DISPLAY)
S710	1-572-647-11	SWITCH, KEY BOARD (FILE SELECT)
S711	1-572-647-11	SWITCH, KEY BOARD (DBFB)
S712	1-572-647-11	SWITCH, KEY BOARD (GROOVE)
S713	1-572-647-11	SWITCH, KEY BOARD (+ ▶▶)
S714	1-572-647-11	SWITCH, KEY BOARD (◀◀ –)
S717	1-572-647-11	SWITCH, KEY BOARD (DEMO)
S718	1-572-647-11	SWITCH, KEY BOARD (■)

Ref. No.	Part No.	Description	Remarks
S719	1-572-647-11	SWITCH, KEY BOARD (◀ TAPE A)	
S720	1-572-647-11	SWITCH, KEY BOARD (◀ TAPE B)	
S721	1-572-647-11	SWITCH, KEY BOARD (▶ TAPE B)	
S722	1-572-647-11	SWITCH, KEY BOARD (▶II CD)	
S723	1-572-647-11	SWITCH, KEY BOARD (TUNER/BAND)	
S724	1-572-647-11	SWITCH, KEY BOARD (REC)	
S725	1-572-647-11	SWITCH, KEY BOARD (PAUSE)	
S726	1-572-647-11	SWITCH, KEY BOARD (CD SYNC)	
S727	1-572-647-11	SWITCH, KEY BOARD (DOLBY PRO LOGIC)	
S728	1-572-647-11	SWITCH, KEY BOARD (DSP)	
S731	1-572-647-11	SWITCH, KEY BOARD (▶ TAPE B)	
S732	1-572-647-11	SWITCH, KEY BOARD (FUNCION)	
S733	1-572-647-11	SWITCH, KEY BOARD (PLAY MODE TUNER MEMORY)	
S734	1-572-647-11	SWITCH, KEY BOARD (STEREO/MONO REPEAT)	
S735	1-572-647-11	SWITCH, KEY BOARD (EDIT/DIRECTION)	
S736	1-572-647-11	SWITCH, KEY BOARD (ENTER/NEXT)	

< VARIABLE RESISTOR >

VR601	1-475-841-11	ENCODER (I◀◀ ▶▶I)
VR602	1-475-807-11	ENCODER, ROTARY (VOLUME)

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	A-4426-700-A	FRONT AMP BOARD, COMPLETE
		**********
	7-685-645-79	SCREW +BVTP 3 × 6 TYPE2 TT(B)
	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 TT(B)
	7-685-649-91	SCREW +BVTP 3 × 14 TYPE2 TT(B)

< CAPACITOR >

C533	1-126-933-11	ELECT	100uF	20%	16V
C538	1-109-953-11	ELECT	2.2uF	20%	50V
C539	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C540	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C541	1-109-953-11	ELECT	2.2uF	20%	50V
C542	1-109-953-11	ELECT	2.2uF	20%	50V
C543	1-162-199-31	CERAMIC	10PF	5%	50V
C544	1-162-199-31	CERAMIC	10PF	5%	50V
C545	1-126-966-11	ELECT	33uF	20%	16V
C546	1-126-966-11	ELECT	33uF	20%	16V
C547	1-137-399-11	FILM	0.1uF	5%	100V
C548	1-137-399-11	FILM	0.1uF	5%	100V
C549	1-161-494-00	CERAMIC	0.022uF		25V
C550	1-161-494-00	CERAMIC	0.022uF		25V
C551	1-104-664-11	ELECT	47uF	20%	16V
C552	1-126-767-11	ELECT	1000uF	20%	16V
C553	1-104-664-11	ELECT	47uF	20%	16V
C555	1-126-963-11	ELECT	4.7uF	20%	50V
C556	1-162-306-11	CERAMIC	0.01uF	20%	16V
C557	1-126-933-11	ELECT	100uF	20%	16V
C558	1-126-961-11	ELECT	2.2uF	20%	50V
C559	1-126-964-11	ELECT	10uF	20%	50V
C560	1-126-964-11	ELECT	10uF	20%	50V
C561	1-128-582-11	ELECT	10uF	20%	63V
C562	1-128-582-11	ELECT	10uF	20%	63V
C591	1-162-282-31	CERAMIC	100PF	10%	50V
C592	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

*	CN505	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P

FRONT AMP FUSE KEY

Ref. No.	Part No.	Description				Remarks
		< DIODE >				
D512	8-719-991-33	DIODE 1SS133T-77				
D513	8-719-991-33	DIODE 1SS133T-77				
D514	8-719-991-33	DIODE 1SS133T-77				
D515	8-719-991-33	DIODE 1SS133T-77				
D516	8-719-991-33	DIODE 1SS133T-77				
D517	8-719-991-33	DIODE 1SS133T-77				
D518	8-719-991-33	DIODE 1SS133T-77				
D519	8-719-991-33	DIODE 1SS133T-77				
D520	8-719-010-68	DIODE UZ-11BS				
		< IC >				
IC502	8-749-015-45	IC STK407-090E				
IC503	8-759-111-68	IC uPC1237HA				
		< TRANSISTOR >				
Q507	8-729-993-43	TRANSISTOR 2SA934R				
Q508	8-729-142-46	TRANSISTOR 2SC2001-L				
Q509	8-729-048-99	TRANSISTOR 2SK2541				
Q510	8-729-048-99	TRANSISTOR 2SK2541				
Q511	8-729-184-53	TRANSISTOR 2SC1841-EA				
Q512	8-729-184-53	TRANSISTOR 2SC1841-EA				
Q513	8-729-231-55	TRANSISTOR 2SC2878-A				
Q514	8-729-231-55	TRANSISTOR 2SC2878-A				
Q515	8-729-140-82	TRANSISTOR 2SA988-EA				
Q516	8-729-103-63	TRANSISTOR 2SA953-KA				
Q517	8-729-119-78	TRANSISTOR 2SC945-P				
		< RESISTOR >				
R525	1-247-863-11	CARBON	22K	5%	1/4W	
R526	1-247-863-11	CARBON	22K	5%	1/4W	
R527	1-247-855-11	CARBON	10K	5%	1/4W	
R528	1-247-879-11	CARBON	100K	5%	1/4W	
R529	1-247-903-00	CARBON	1M	5%	1/4W	
R530	1-249-417-11	CARBON	1K	5%	1/4W	F
R537	1-249-417-11	CARBON	1K	5%	1/4W	F
R538	1-249-417-11	CARBON	1K	5%	1/4W	F
R539	1-247-855-11	CARBON	10K	5%	1/4W	
R540	1-247-855-11	CARBON	10K	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-438-11	CARBON	56K	5%	1/4W	
R543	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R544	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R545	1-249-438-11	CARBON	56K	5%	1/4W	
R546	1-249-438-11	CARBON	56K	5%	1/4W	
R547	1-260-072-11	CARBON	4.7	5%	1/2W	
R548	1-260-072-11	CARBON	4.7	5%	1/2W	
R549	1-249-405-11	CARBON	100	5%	1/4W	F
R550	1-249-405-11	CARBON	100	5%	1/4W	F
R551	1-247-887-00	CARBON	220K	5%	1/4W	
R552	1-247-887-00	CARBON	220K	5%	1/4W	
R553	1-249-417-11	CARBON	1K	5%	1/4W	F
R554	1-249-417-11	CARBON	1K	5%	1/4W	F
R555	1-249-431-11	CARBON	15K	5%	1/4W	
R556	1-249-431-11	CARBON	15K	5%	1/4W	
R557	1-220-890-11	METAL	0.22	10%	3W	
R558	1-220-890-11	METAL	0.22	10%	3W	
R559	1-249-430-11	CARBON	12K	5%	1/4W	
R560	1-249-430-11	CARBON	12K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R561	1-247-839-11	CARBON	2.2K	5%	1/4W	
R562	1-247-871-11	CARBON	47K	5%	1/4W	
R563	1-247-855-11	CARBON	10K	5%	1/4W	
R564	1-247-879-11	CARBON	100K	5%	1/4W	
R565	1-247-839-11	CARBON	2.2K	5%	1/4W	
R566	1-249-438-11	CARBON	56K	5%	1/4W	
R567	1-247-847-11	CARBON	4.7K	5%	1/4W	
R568	1-247-847-11	CARBON	4.7K	5%	1/4W	
R569	1-247-855-11	CARBON	10K	5%	1/4W	
R571	1-249-417-11	CARBON	1K	5%	1/4W	F
R573	1-247-862-11	CARBON	20K	5%	1/4W	
R574	1-247-855-11	CARBON	10K	5%	1/4W	
R575	1-247-855-11	CARBON	10K	5%	1/4W	
R577	1-260-093-11	CARBON	330	5%	1/2W	
R578	1-247-871-11	CARBON	47K	5%	1/4W	
R579	1-247-854-11	CARBON	9.1K	5%	1/4W	
R580	1-247-847-11	CARBON	4.7K	5%	1/4W	
R581	1-247-879-11	CARBON	100K	5%	1/4W	
R582	1-247-693-11	CARBON	27	5%	1/4W	F
		< THERMISTOR >				
TH501	1-803-779-11	THERMISTOR				
**********						
	1-675-358-11	FUSE BOARD				
		**********				
*	1-533-213-31	HOLDER, FUSE				
		< FUSE >				
⚠F001	1-532-388-31	FUSE, TIME LAG 2A 250V (GRX40AV:AUS,SA/RXD6AV)				
⚠F001	1-576-108-11	FUSE 4A/125V (GRX40AV: MX)				
		< RESISTOR >				
⚠R001	1-219-238-11	SOLID	4.7M	20%	1/2W	
**********						
	A-4426-691-A	KEY BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
* CN606	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				
* CN607	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
		< LED >				
LED701	8-719-046-80	DIODE SML19416W-TP4				
LED702	8-719-046-80	DIODE SML19416W-TP4				
LED703	8-719-046-80	DIODE SML19416W-TP4				
		< RESISTOR >				
R748	1-249-434-11	CARBON	27K	5%	1/4W	
R749	1-249-431-11	CARBON	15K	5%	1/4W	
R750	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R751	1-247-847-11	CARBON	4.7K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S701	1-572-647-11	SWITCH, KEY BOARD (POWER)			
S702	1-572-647-11	SWITCH, KEY BOARD (DISC 1)			
S703	1-572-647-11	SWITCH, KEY BOARD (DISC 2)			
S704	1-572-647-11	SWITCH, KEY BOARD (DISC 3)			
S705	1-572-647-11	SWITCH, KEY BOARD (DISC SKIP)			
S706	1-572-647-11	SWITCH, KEY BOARD (EJECT)			
**********					
	1-675-355-11	H/P BOARD			
		*********			
		< JACK >			
JK403	1-569-612-11	JACK, MINIATURE (PHONE)			
**********					
	A-4426-696-A	MAIN BOARD, COMPLETE (GRX40AV)			
		**********			
	A-4426-962-A	MAIN BOARD, COMPLETE (RXD6AV)			
		**********			
		< CAPACITOR >			
C102	1-161-494-00	CERAMIC	0.022uF		25V
C103	1-126-959-11	ELECT	0.47uF	20%	50V
C104	1-161-494-00	CERAMIC	0.022uF		25V
C105	1-161-494-00	CERAMIC	0.022uF		25V
C106	1-161-494-00	CERAMIC	0.022uF		25V
C107	1-161-494-00	CERAMIC	0.022uF		25V
C109	1-126-964-11	ELECT	10uF	20%	50V
C111	1-161-494-00	CERAMIC	0.022uF		25V
C113	1-161-494-00	CERAMIC	0.022uF		25V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C116	1-136-356-11	FILM	470PF	5%	50V
C117	1-162-205-31	CERAMIC	18PF	5%	50V
C118	1-104-665-11	ELECT	100uF	20%	10V
C120	1-164-206-41	CERAMIC	0.047uF	99%	50V
C121	1-162-215-31	CERAMIC	47PF	5%	50V
C122	1-126-960-11	ELECT	1uF	20%	50V
C123	1-126-959-11	ELECT	0.47uF	20%	50V
C124	1-162-206-31	CERAMIC	20PF	5%	50V
C125	1-126-960-11	ELECT	1uF	20%	50V
C126	1-161-494-00	CERAMIC	0.022uF		25V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-161-494-00	CERAMIC	0.022uF		25V
C129	1-126-964-11	ELECT	10uF	20%	50V
C130	1-130-489-11	MYLAR	0.033uF	5%	50V (GRX40AV)
C130	1-130-487-00	MYLAR	0.022uF	5%	50V (RXD6AV)
C131	1-130-489-11	MYLAR	0.033uF	5%	50V (GRX40AV)
C131	1-130-487-00	MYLAR	0.022uF	5%	50V (RXD6AV)
C132	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C133	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C134	1-126-962-11	ELECT	3.3uF	20%	50V
C135	1-162-293-31	CERAMIC	820PF	10%	50V
C136	1-128-551-11	ELECT	22uF	20%	25V
C137	1-126-959-11	ELECT	0.47uF	20%	50V
C138	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C139	1-161-494-00	CERAMIC	0.022uF		25V
C140	1-104-665-11	ELECT	100uF	20%	10V
C141	1-161-494-00	CERAMIC	0.022uF		25V
C142	1-126-933-11	ELECT	100uF	20%	16V
C143	1-137-162-11	FILM	0.22uF	10%	63V
C144	1-130-483-00	MYLAR	0.01uF	5%	50V
C146	1-162-294-31	CERAMIC	0.001uF	10%	50V
C147	1-162-306-11	CERAMIC	0.01uF	20%	16V
C148	1-161-494-00	CERAMIC	0.022uF		25V
C149	1-162-294-31	CERAMIC	0.001uF	10%	50V
C150	1-164-159-11	CERAMIC	0.1uF		50V
C151	1-126-959-11	ELECT	0.47uF	20%	50V
C152	1-126-959-11	ELECT	0.47uF	20%	50V
C153	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C154	1-164-159-11	CERAMIC	0.1uF		50V
C155	1-162-294-31	CERAMIC	0.001uF	10%	50V
C156	1-102-951-00	CERAMIC	15PF	5%	50V
C157	1-102-951-00	CERAMIC	15PF	5%	50V
C158	1-104-664-11	ELECT	47uF	20%	10V
C160	1-126-963-11	ELECT	4.7uF	20%	50V
C161	1-126-963-11	ELECT	4.7uF	20%	50V
C163	1-161-494-00	CERAMIC	0.022uF		25V
C164	1-162-282-31	CERAMIC	100PF	10%	50V
C165	1-161-494-00	CERAMIC	0.022uF		25V
C166	1-161-494-00	CERAMIC	0.022uF		25V
C167	1-162-286-31	CERAMIC	220PF	10%	50V
C169	1-162-199-31	CERAMIC	10PF	5%	50V
C171	1-162-282-31	CERAMIC	100PF	10%	50V
C201	1-162-292-31	CERAMIC	680PF	10%	50V
C202	1-162-292-31	CERAMIC	680PF	10%	50V
C203	1-162-292-31	CERAMIC	680PF	10%	50V
C204	1-162-292-31	CERAMIC	680PF	10%	50V
C205	1-162-286-31	CERAMIC	220PF	10%	50V
C206	1-162-286-31	CERAMIC	220PF	10%	50V
C207	1-162-286-31	CERAMIC	220PF	10%	50V
C208	1-162-286-31	CERAMIC	220PF	10%	50V
C209	1-104-664-11	ELECT	47uF	20%	10V
C210	1-104-664-11	ELECT	47uF	20%	10V
C211	1-130-486-00	MYLAR	0.018uF	10%	50V
C212	1-130-486-00	MYLAR	0.018uF	10%	50V
C213	1-126-960-11	ELECT	1uF	20%	50V
C214	1-126-960-11	ELECT	1uF	20%	50V
C215	1-162-303-11	CERAMIC	0.0033uF	20%	16V
C216	1-162-303-11	CERAMIC	0.0033uF	20%	16V
C217	1-104-664-11	ELECT	47uF	20%	16V
C218	1-126-940-11	ELECT	330uF	20%	16V
C219	1-126-962-11	ELECT	3.3uF	20%	50V
C221	1-126-962-11	ELECT	3.3uF	20%	50V
C222	1-126-962-11	ELECT	3.3uF	20%	50V
C223	1-162-290-31	CERAMIC	470PF	10%	50V
C224	1-162-290-31	CERAMIC	470PF	10%	50V
C225	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C226	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C227	1-162-286-31	CERAMIC	220PF	10%	50V
C228	1-162-286-31	CERAMIC	220PF	10%	50V
C229	1-104-665-11	ELECT	100uF	20%	10V
C230	1-104-665-11	ELECT	100uF	20%	10V
C231	1-126-958-11	ELECT	0.33uF	20%	50V
C232	1-126-958-11	ELECT	0.33uF	20%	50V
C233	1-162-294-31	CERAMIC	0.001uF	10%	50V
C234	1-162-294-31	CERAMIC	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
C235	1-126-960-11	ELECT	1uF	20%	50V
C236	1-126-933-11	ELECT	100uF	20%	16V
C237	1-161-494-00	CERAMIC	0.022uF		25V
C238	1-126-961-11	ELECT	2.2uF	20%	50V
C251	1-137-366-11	FILM	0.0022uF	5%	50V
C252	1-130-485-00	MYLAR	0.015uF	5%	50V
C253	1-130-483-00	MYLAR	0.01uF	5%	50V
C254	1-130-479-00	MYLAR	0.0047uF	5%	50V
C255	1-104-664-11	ELECT	47uF	20%	16V
C256	1-126-960-11	ELECT	1uF	20%	50V
C257	1-126-956-11	ELECT	0.1uF	20%	50V
C265	1-162-306-11	CERAMIC	0.01uF	20%	16V
C271	1-126-963-11	ELECT	4.7uF	20%	50V
C272	1-126-961-11	ELECT	2.2uF	20%	50V
C301	1-126-959-11	ELECT	0.47uF	20%	50V
C302	1-126-959-11	ELECT	0.47uF	20%	50V
C303	1-126-959-11	ELECT	0.47uF	20%	50V
C304	1-126-959-11	ELECT	0.47uF	20%	50V
C305	1-126-933-11	ELECT	100uF	20%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-162-286-31	CERAMIC	220PF	10%	50V
C308	1-162-286-31	CERAMIC	220PF	10%	50V
C309	1-126-963-11	ELECT	4.7uF	20%	50V
C310	1-126-963-11	ELECT	4.7uF	20%	50V
C311	1-130-486-00	MYLAR	0.018uF	10%	50V
C312	1-130-486-00	MYLAR	0.018uF	10%	50V
C313	1-130-487-00	MYLAR	0.022uF	5%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-130-495-11	MYLAR	0.1uF	5%	50V
C316	1-130-495-11	MYLAR	0.1uF	5%	50V
C317	1-130-495-11	MYLAR	0.1uF	5%	50V
C318	1-130-495-11	MYLAR	0.1uF	5%	50V
C319	1-130-480-00	MYLAR	0.0056uF	5%	50V
C320	1-130-480-00	MYLAR	0.0056uF	5%	50V
C321	1-126-960-11	ELECT	1uF	20%	50V
C322	1-126-960-11	ELECT	1uF	20%	50V
C323	1-126-960-11	ELECT	1uF	20%	50V
C324	1-126-960-11	ELECT	1uF	20%	50V
C325	1-162-199-31	CERAMIC	10PF	5%	50V
C326	1-162-199-31	CERAMIC	10PF	5%	50V
C327	1-126-963-11	ELECT	4.7uF	20%	50V
C328	1-126-963-11	ELECT	4.7uF	20%	50V
C329	1-161-494-00	CERAMIC	0.022uF		25V
C330	1-126-962-11	ELECT	3.3uF	20%	50V
C331	1-126-961-11	ELECT	2.2uF	20%	50V
C332	1-126-961-11	ELECT	2.2uF	20%	50V
C334	1-126-933-11	ELECT	100uF	20%	16V
C335	1-126-959-11	ELECT	0.47uF	20%	50V
C336	1-126-959-11	ELECT	0.47uF	20%	50V
C339	1-126-963-11	ELECT	4.7uF	20%	50V
C340	1-126-963-11	ELECT	4.7uF	20%	50V
C341	1-130-495-11	MYLAR	0.1uF	5%	50V
C342	1-130-495-11	MYLAR	0.1uF	5%	50V
C343	1-130-495-11	MYLAR	0.1uF	5%	50V
C344	1-130-495-11	MYLAR	0.1uF	5%	50V
C345	1-162-294-31	CERAMIC	0.001uF	10%	50V
C346	1-162-294-31	CERAMIC	0.001uF	10%	50V
C347	1-162-286-31	CERAMIC	220PF	10%	50V
C348	1-162-286-31	CERAMIC	220PF	10%	50V
C349	1-161-494-00	CERAMIC	0.022uF		25V

Ref. No.	Part No.	Description			Remarks
C350	1-161-494-00	CERAMIC	0.022uF		25V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-126-960-11	ELECT	1uF	20%	50V
C353	1-126-962-11	ELECT	3.3uF	20%	50V
C354	1-126-962-11	ELECT	3.3uF	20%	50V
C355	1-126-933-11	ELECT	100uF	20%	16V
C356	1-126-964-11	ELECT	10uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V
C362	1-130-487-00	MYLAR	0.022uF	5%	50V
C363	1-164-159-11	CERAMIC	0.1uF		50V
C364	1-136-357-11	FILM	680PF	5%	50V
C365	1-130-495-11	MYLAR	0.1uF	5%	50V
C366	1-136-357-11	FILM	680PF	5%	50V
C367	1-130-495-11	MYLAR	0.1uF	5%	50V
C368	1-130-495-11	MYLAR	0.1uF	5%	50V
C369	1-130-495-11	MYLAR	0.1uF	5%	50V
C370	1-126-934-11	ELECT	220uF	20%	16V
C371	1-126-964-11	ELECT	10uF	20%	50V
C372	1-130-481-00	MYLAR	0.0068uF	5%	50V
C373	1-104-664-11	ELECT	47uF	20%	16V
C374	1-126-964-11	ELECT	10uF	20%	50V
C375	1-126-964-11	ELECT	10uF	20%	50V
C376	1-126-964-11	ELECT	10uF	20%	50V
C377	1-126-960-11	ELECT	1uF	20%	50V
C378	1-130-495-11	MYLAR	0.1uF	5%	50V
C379	1-104-664-11	ELECT	47uF	20%	10V
C380	1-162-286-31	CERAMIC	220PF	10%	50V
C381	1-162-286-31	CERAMIC	220PF	10%	50V
C382	1-162-286-31	CERAMIC	220PF	10%	50V
C383	1-126-960-11	ELECT	1uF	20%	50V
C384	1-130-479-00	MYLAR	0.0047uF	5%	50V
C385	1-130-471-00	MYLAR	0.001uF	5%	50V
C386	1-130-493-00	MYLAR	0.068uF	5%	50V
C387	1-130-495-11	MYLAR	0.1uF	5%	50V
C389	1-130-493-00	MYLAR	0.068uF	5%	50V
C390	1-130-479-00	MYLAR	0.0047uF	5%	50V
C391	1-130-471-00	MYLAR	0.001uF	5%	50V
C392	1-109-889-11	ELECT	1uF	20%	50V
C393	1-109-889-11	ELECT	1uF	20%	50V
C394	1-130-480-00	MYLAR	0.0056uF	5%	50V
C395	1-130-491-00	MYLAR	0.047uF	5%	50V
C396	1-137-165-11	FILM	0.68uF	10%	63V
C397	1-137-162-11	FILM	0.22uF	10%	63V
C398	1-137-162-11	FILM	0.22uF	10%	63V
C399	1-126-963-11	ELECT	4.7uF	20%	50V
C404	1-104-482-11	ELECT	4700uF	20%	63V
C405	1-104-482-11	ELECT	4700uF	20%	63V
C406	1-161-494-00	CERAMIC	0.022uF		25V
C407	1-161-494-00	CERAMIC	0.022uF		25V
C412	1-104-664-11	ELECT	47uF	20%	16V
C415	1-101-004-00	CERAMIC	0.01uF		50V
C416	1-101-004-00	CERAMIC	0.01uF		50V
C417	1-126-968-11	ELECT	100uF	20%	50V
C418	1-161-494-00	CERAMIC	0.022uF		25V
C419	1-161-494-00	CERAMIC	0.022uF		25V
C420	1-128-553-11	ELECT	220uF	20%	63V
C421	1-126-948-11	ELECT	100uF	20%	35V
C422	1-126-949-11	ELECT	220uF	20%	35V
C423	1-161-494-00	CERAMIC	0.022uF		25V
C424	1-104-665-11	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description			Remarks
C425	1-104-665-11	ELECT	100uF	20%	10V
C426	1-161-494-00	CERAMIC	0.022uF		25V
C431	1-161-494-00	CERAMIC	0.022uF		25V
C432	1-126-933-11	ELECT	100uF	20%	16V
C433	1-126-933-11	ELECT	100uF	20%	16V
C434	1-161-494-00	CERAMIC	0.022uF		25V
C440	1-126-933-11	ELECT	100uF	20%	16V
C442	1-164-159-11	CERAMIC	0.1uF		50V
C453	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C454	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C460	1-126-959-11	ELECT	0.47uF	20%	50V
C106A	1-104-664-11	ELECT	47uF	20%	16V
C108A	1-164-206-41	CERAMIC	0.047uF	99%	50V
C120A	1-161-494-00	CERAMIC	0.022uF		25V
C235A	1-162-215-31	CERAMIC	47PF	5%	50V
C236A	1-162-215-31	CERAMIC	47PF	5%	50V
C3100	1-126-963-11	ELECT	4.7uF	20%	50V
C3101	1-137-162-11	FILM	0.22uF	10%	63V
C3102	1-137-162-11	FILM	0.22uF	10%	63V
C3103	1-164-159-11	CERAMIC	0.1uF		50V
C3104	1-130-491-00	MYLAR	0.047uF	5%	50V
C3105	1-130-491-00	MYLAR	0.047uF	5%	50V
C3106	1-164-159-11	CERAMIC	0.1uF		50V
C3107	1-164-159-11	CERAMIC	0.1uF		50V
C3108	1-130-487-00	MYLAR	0.022uF	5%	50V
C3109	1-164-159-11	CERAMIC	0.1uF		50V
C3115	1-126-964-11	ELECT	10uF	20%	50V
C3116	1-126-964-11	ELECT	10uF	20%	50V
C3117	1-162-286-31	CERAMIC	220PF	10%	50V
C3118	1-162-286-31	CERAMIC	220PF	10%	50V
C3119	1-161-494-00	CERAMIC	0.022uF		25V
C3120	1-161-494-00	CERAMIC	0.022uF		25V
C3121	1-126-960-11	ELECT	1uF	20%	50V
C3122	1-126-960-11	ELECT	1uF	20%	50V
C3126	1-162-286-31	CERAMIC	220PF	10%	50V
C3127	1-126-961-11	ELECT	2.2uF	20%	50V
C3128	1-161-494-00	CERAMIC	0.022uF		25V
C3129	1-161-494-00	CERAMIC	0.022uF		25V
C3130	1-161-494-00	CERAMIC	0.022uF		25V
C3131	1-161-494-00	CERAMIC	0.022uF		25V
C3133	1-161-494-00	CERAMIC	0.022uF		25V
C3143	1-126-964-11	ELECT	10uF	20%	50V
C422A	1-126-767-11	ELECT	1000uF	20%	16V
C442A	1-164-206-41	CERAMIC	0.047uF	99%	50V
		< FILTER >			
CF101	1-579-568-11	FILTER, CERAMIC			
CF102	1-567-390-11	FILTER,CERAMIC 10.7M (GRX40AV)			
CF102	1-567-107-00	FILTER, CERAMIC (RXD6AV)			
CF103	1-527-996-11	FILTER, CERAMIC			
CF104	1-579-856-11	DISCRIMINATOR, CERAMIC			
		< CONNECTOR >			
CN101	1-793-584-11	PIN, CONNECTOR 16P			
CN102	1-793-584-11	PIN, CONNECTOR 16P			
* CN301	1-564-515-11	PLUG, CONNECTOR 12P			
CN302	1-764-334-11	PLUG, CONNECTOR 11P			
* CN502	1-564-508-11	PLUG, CONNECTOR 5P			

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D101	8-719-911-19	DIODE ISS133	
D102	8-719-911-19	DIODE ISS133	
D103	8-719-911-19	DIODE ISS133	
D104	8-719-911-19	DIODE ISS133	
D105	8-719-053-11	DIODE KV1560-TL34	
D106	8-719-911-19	DIODE ISS133	
D107	8-719-010-40	DIODE UZ-5.6BS	
D201	8-719-911-19	DIODE ISS133	
D202	8-719-911-19	DIODE ISS133	
D203	8-719-911-19	DIODE ISS133	
D204	8-719-911-19	DIODE ISS133	
D205	8-719-911-19	DIODE ISS133	
D302	8-719-911-19	DIODE ISS133	
D303	8-719-010-60	DIODE UZ-9.1BS	
D305	8-719-911-19	DIODE ISS133	
D306	8-719-911-19	DIODE ISS133	
D307	8-719-010-44	DIODE UZ-6.2BS	
D308	8-719-010-44	DIODE UZ-6.2BS	
D403	8-719-027-23	DIODE GBU6D	
D405	8-719-010-44	DIODE UZ-6.2BS	
D407	8-719-921-82	DIODE UZ-12BS	
D409	8-719-012-32	DIODE UZ-27BS	
D410	8-719-010-31	DIODE UZ-4.7BS	
D411	8-719-200-02	DIODE 1N4002	
D412	8-719-200-02	DIODE 1N4002	
D417	8-719-911-19	DIODE ISS133	
D418	8-719-911-19	DIODE ISS133	
D419	8-719-911-19	DIODE ISS133	
D420	8-719-911-19	DIODE ISS133	
D421	8-719-911-19	DIODE ISS133	
D422	8-719-911-19	DIODE ISS133	
		< FRONT END >	
FE101	1-693-469-11	FRONT END	
		< IC >	
IC102	8-759-590-14	IC LA1833L	
IC103	8-759-590-13	IC LC72131D	
IC201	8-759-242-58	IC TA8189N	
IC301	8-759-585-01	IC TDA7439	
IC302	8-759-640-20	IC M62463FP	
IC303	8-759-505-55	IC NJM4558L	
IC304	8-759-505-55	IC NJM4558L	
IC305	8-759-505-55	IC NJM4558L	
IC306	8-759-505-55	IC NJM4558L	
		< JACK >	
JK101	1-694-092-21	TERMINAL BOARD (SPEAKER)(ANTENNA)(GRX40AV)	
JK101	1-694-126-11	TERMINAL BOARD (ANTENNA)(RXD6AV)	
JK301	1-793-581-11	JACK, PIN 4P (MD/VIDEO IN/OUT)	
JK303	1-793-582-11	JACK, PIN 1P (WOOFER)	
JK401	1-694-604-11	TERMINAL, SPEAKER (4P) (FRONT SPEAKER)	
JK402	1-694-605-11	TERMINAL, SPEAKER (6P) (REAR SPEAKER)	

MAIN

Ref. No.	Part No.	Description	Remarks
		< COIL >	
L102	1-410-330-11	INDUCTOR 22uH	
L103	1-410-330-11	INDUCTOR 22uH	
L104	1-411-901-11	COIL, ANTENNA	
L106	1-410-517-11	INDUCTOR 47uH	
L107	1-429-555-11	TRANSFORMER, MW OSC	
L109	1-410-330-11	INDUCTOR 22uH	
L113	1-410-330-11	INDUCTOR 22uH	
L201	1-419-200-11	COIL, BIAS OSCILLATION	
L405	1-408-096-00	COIL 470uH	
		< TRANSISTOR >	
Q101	1-806-093-71	TRANSISTOR 2SC1675-L1	
Q103	8-729-119-76	TRANSISTOR 2SA733-P	
Q104	8-729-041-83	TRANSISTOR 2SK544E	
Q109	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q110	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q201	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q202	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q203	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q204	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q205	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q206	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q207	8-729-119-76	TRANSISTOR 2SA733-P	
Q208	8-729-119-76	TRANSISTOR 2SA733-P	
Q209	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q210	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q211	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q213	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q214	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q251	8-729-142-46	TRANSISTOR 2SC2001-L	
Q252	8-729-119-76	TRANSISTOR 2SA733-P	
Q253	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q301	8-729-231-55	TRANSISTOR 2SC2878-A	
Q302	8-729-231-55	TRANSISTOR 2SC2878-A	
Q303	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q304	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q305	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q308	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q309	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q310	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q311	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q312	8-729-026-29	TRANSISTOR 2SJ346	
Q313	8-729-026-29	TRANSISTOR 2SJ346	
Q314	8-729-231-55	TRANSISTOR 2SC2878-A	
Q315	8-729-231-55	TRANSISTOR 2SC2878-A	
Q316	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q317	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q318	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q401	8-729-188-23	TRANSISTOR 2SD882-P	
Q403	8-729-232-32	TRANSISTOR 2SA965-O/Y(TPE6)	
Q405	8-729-140-96	TRANSISTOR 2SC2060-R	
Q406	8-729-232-32	TRANSISTOR 2SA965-O/Y(TPE6)	
Q407	8-729-026-29	TRANSISTOR 2SJ346	
Q411	8-729-026-29	TRANSISTOR 2SJ346	
Q412	8-729-119-76	TRANSISTOR 2SA733-P	
Q413	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q414	8-729-048-99	TRANSISTOR 2SK2541	
Q415	8-729-048-99	TRANSISTOR 2SK2541	
Q419	8-729-194-57	TRANSISTOR 2SC945TP-P	
Q420	8-729-194-57	TRANSISTOR 2SC945TP-P	

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R101	1-247-855-11	CARBON	10K	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-247-835-11	CARBON	1.5K	5%	1/4W
R105	1-249-411-11	CARBON	330	5%	1/4W
R106	1-247-839-11	CARBON	2.2K	5%	1/4W
R107	1-249-427-11	CARBON	6.8K	5%	1/4W F
R108	1-247-871-11	CARBON	47K	5%	1/4W
R109	1-247-871-11	CARBON	47K	5%	1/4W
R112	1-247-807-11	CARBON	100	5%	1/4W
R113	1-247-843-11	CARBON	3.3K	5%	1/4W
R114	1-249-417-11	CARBON	1K	5%	1/4W F
R115	1-249-417-11	CARBON	1K	5%	1/4W F
R116	1-249-397-11	CARBON	22	5%	1/4W F
R117	1-247-863-11	CARBON	22K	5%	1/4W
R118	1-247-807-11	CARBON	100	5%	1/4W
R119	1-249-410-11	CARBON	270	5%	1/4W F
R120	1-247-843-11	CARBON	3.3K	5%	1/4W
R121	1-247-855-11	CARBON	10K	5%	1/4W
R122	1-249-432-11	CARBON	18K	5%	1/4W
R123	1-249-428-11	CARBON	8.2K	5%	1/4W F
R124	1-247-843-11	CARBON	3.3K	5%	1/4W
R125	1-249-409-11	CARBON	220	5%	1/4W F
R126	1-247-843-11	CARBON	3.3K	5%	1/4W
R127	1-247-843-11	CARBON	3.3K	5%	1/4W
R128	1-249-424-11	CARBON	3.9K	5%	1/4W F
R129	1-249-424-11	CARBON	3.9K	5%	1/4W F
R130	1-249-405-11	CARBON	100	5%	1/4W F
R131	1-249-417-11	CARBON	1K	5%	1/4W F
R132	1-247-855-11	CARBON	10K	5%	1/4W
R133	1-247-849-11	CARBON	5.6K	5%	1/4W
R134	1-247-855-11	CARBON	10K	5%	1/4W
R135	1-249-417-11	CARBON	1K	5%	1/4W F
R136	1-247-879-11	CARBON	100K	5%	1/4W
R137	1-247-855-11	CARBON	10K	5%	1/4W
R138	1-247-807-11	CARBON	100	5%	1/4W
R139	1-247-855-11	CARBON	10K	5%	1/4W
R140	1-247-855-11	CARBON	10K	5%	1/4W
R141	1-247-839-11	CARBON	2.2K	5%	1/4W
R142	1-247-839-11	CARBON	2.2K	5%	1/4W
R143	1-247-839-11	CARBON	2.2K	5%	1/4W
R146	1-249-417-11	CARBON	1K	5%	1/4W F
R148	1-247-855-11	CARBON	10K	5%	1/4W
R149	1-247-855-11	CARBON	10K	5%	1/4W
R150	1-247-843-11	CARBON	3.3K	5%	1/4W
R171	1-249-411-11	CARBON	330	5%	1/4W
R201	1-249-393-11	CARBON	10	5%	1/4W F
R202	1-249-393-11	CARBON	10	5%	1/4W F
R203	1-249-393-11	CARBON	10	5%	1/4W F
R204	1-249-393-11	CARBON	10	5%	1/4W F
R205	1-249-401-11	CARBON	47	5%	1/4W F
R206	1-249-401-11	CARBON	47	5%	1/4W F
R207	1-249-428-11	CARBON	8.2K	5%	1/4W F
R208	1-249-428-11	CARBON	8.2K	5%	1/4W F
R209	1-247-889-00	CARBON	270K	5%	1/4W
R210	1-247-889-00	CARBON	270K	5%	1/4W
R211	1-247-891-00	CARBON	330K	5%	1/4W
R212	1-247-891-00	CARBON	330K	5%	1/4W
R213	1-247-847-11	CARBON	4.7K	5%	1/4W
R214	1-247-847-11	CARBON	4.7K	5%	1/4W
R215	1-247-891-00	CARBON	330K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R216	1-247-891-00	CARBON	330K	5%	1/4W
R217	1-247-855-11	CARBON	10K	5%	1/4W
R218	1-247-885-00	CARBON	180K	5%	1/4W
R219	1-247-871-11	CARBON	47K	5%	1/4W
R220	1-247-863-11	CARBON	22K	5%	1/4W
R221	1-247-855-11	CARBON	10K	5%	1/4W
R222	1-249-409-11	CARBON	220	5%	1/4W F
R223	1-247-885-00	CARBON	180K	5%	1/4W
R224	1-247-885-00	CARBON	180K	5%	1/4W
R225	1-247-863-11	CARBON	22K	5%	1/4W
R226	1-247-863-11	CARBON	22K	5%	1/4W
R227	1-247-881-00	CARBON	120K	5%	1/4W
R228	1-247-881-00	CARBON	120K	5%	1/4W
R229	1-249-420-11	CARBON	1.8K	5%	1/4W F
R230	1-249-420-11	CARBON	1.8K	5%	1/4W F
R231	1-247-839-11	CARBON	2.2K	5%	1/4W
R232	1-247-839-11	CARBON	2.2K	5%	1/4W
R233	1-247-871-11	CARBON	47K	5%	1/4W
R234	1-247-871-11	CARBON	47K	5%	1/4W
R235	1-247-847-11	CARBON	4.7K	5%	1/4W
R236	1-247-847-11	CARBON	4.7K	5%	1/4W
R237	1-247-855-11	CARBON	10K	5%	1/4W
R238	1-247-899-11	CARBON	680K	5%	1/4W
R239	1-249-381-11	CARBON	1	5%	1/4W F
R240	1-247-855-11	CARBON	10K	5%	1/4W
R241	1-247-847-11	CARBON	4.7K	5%	1/4W
R242	1-247-847-11	CARBON	4.7K	5%	1/4W
R243	1-249-430-11	CARBON	12K	5%	1/4W
R244	1-247-839-11	CARBON	2.2K	5%	1/4W
R245	1-247-839-11	CARBON	2.2K	5%	1/4W
R246	1-249-434-11	CARBON	27K	5%	1/4W
R247	1-247-855-11	CARBON	10K	5%	1/4W
R248	1-247-847-11	CARBON	4.7K	5%	1/4W
R249	1-247-899-11	CARBON	680K	5%	1/4W
R250	1-247-885-00	CARBON	180K	5%	1/4W
R251	1-249-434-11	CARBON	27K	5%	1/4W
R252	1-249-393-11	CARBON	10	5%	1/4W F
R253	1-247-825-11	CARBON	560	5%	1/4W
R254	1-247-855-11	CARBON	10K	5%	1/4W
R255	1-247-847-11	CARBON	4.7K	5%	1/4W
R256	1-247-855-11	CARBON	10K	5%	1/4W
R257	1-249-412-11	CARBON	390	5%	1/4W F
R258	1-249-409-11	CARBON	220	5%	1/4W F
R261	1-249-412-11	CARBON	390	5%	1/4W F
R262	1-247-879-11	CARBON	100K	5%	1/4W
R263	1-247-855-11	CARBON	10K	5%	1/4W
R264	1-247-855-11	CARBON	10K	5%	1/4W
R271	1-249-417-11	CARBON	1K	5%	1/4W F
R301	1-249-417-11	CARBON	1K	5%	1/4W F
R302	1-249-417-11	CARBON	1K	5%	1/4W F
R303	1-249-418-11	CARBON	1.2K	5%	1/4W F
R304	1-249-418-11	CARBON	1.2K	5%	1/4W F
R305	1-247-839-11	CARBON	2.2K	5%	1/4W
R306	1-247-839-11	CARBON	2.2K	5%	1/4W
R309	1-249-417-11	CARBON	1K	5%	1/4W F
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R311	1-247-879-11	CARBON	100K	5%	1/4W
R312	1-247-879-11	CARBON	100K	5%	1/4W
R313	1-247-855-11	CARBON	10K	5%	1/4W
R314	1-247-855-11	CARBON	10K	5%	1/4W
R315	1-247-879-11	CARBON	100K	5%	1/4W
R316	1-247-887-00	CARBON	220K	5%	1/4W
R317	1-249-417-11	CARBON	1K	5%	1/4W F
R318	1-249-417-11	CARBON	1K	5%	1/4W F
R319	1-247-855-11	CARBON	10K	5%	1/4W
R324	1-247-839-11	CARBON	2.2K	5%	1/4W
R325	1-247-839-11	CARBON	2.2K	5%	1/4W
R327	1-247-841-11	CARBON	2.7K	5%	1/4W
R328	1-247-841-11	CARBON	2.7K	5%	1/4W
R329	1-247-849-11	CARBON	5.6K	5%	1/4W
R330	1-247-849-11	CARBON	5.6K	5%	1/4W
R331	1-247-903-00	CARBON	1M	5%	1/4W
R332	1-247-903-00	CARBON	1M	5%	1/4W
R334	1-247-855-11	CARBON	10K	5%	1/4W
R335	1-249-413-11	CARBON	470	5%	1/4W F
R336	1-247-891-00	CARBON	330K	5%	1/4W
R337	1-249-431-11	CARBON	15K	5%	1/4W
R338	1-247-871-11	CARBON	47K	5%	1/4W
R339	1-249-431-11	CARBON	15K	5%	1/4W
R340	1-247-852-11	CARBON	7.5K	5%	1/4W
R341	1-247-871-11	CARBON	47K	5%	1/4W
R342	1-247-852-11	CARBON	7.5K	5%	1/4W
R344	1-249-403-11	CARBON	68	5%	1/4W F
R345	1-247-903-00	CARBON	1M	5%	1/4W
R346	1-247-903-00	CARBON	1M	5%	1/4W
R347	1-247-847-11	CARBON	4.7K	5%	1/4W
R348	1-247-847-11	CARBON	4.7K	5%	1/4W
R349	1-247-839-11	CARBON	2.2K	5%	1/4W
R350	1-247-839-11	CARBON	2.2K	5%	1/4W
R355	1-247-871-11	CARBON	47K	5%	1/4W
R356	1-247-871-11	CARBON	47K	5%	1/4W
R357	1-247-897-11	CARBON	560K	5%	1/4W
R358	1-247-879-11	CARBON	100K	5%	1/4W
R359	1-247-903-00	CARBON	1M	5%	1/4W
R360	1-247-903-00	CARBON	1M	5%	1/4W
R362	1-249-409-11	CARBON	220	5%	1/4W F
R363	1-247-879-11	CARBON	100K	5%	1/4W
R365	1-249-417-11	CARBON	1K	5%	1/4W F
R366	1-249-417-11	CARBON	1K	5%	1/4W F
R367	1-247-847-11	CARBON	4.7K	5%	1/4W
R368	1-247-847-11	CARBON	4.7K	5%	1/4W
R369	1-249-427-11	CARBON	6.8K	5%	1/4W F
R370	1-249-427-11	CARBON	6.8K	5%	1/4W F
R371	1-247-883-00	CARBON	150K	5%	1/4W
R372	1-247-883-00	CARBON	150K	5%	1/4W
R373	1-247-847-11	CARBON	4.7K	5%	1/4W
R374	1-247-847-11	CARBON	4.7K	5%	1/4W
R375	1-247-891-00	CARBON	330K	5%	1/4W
R376	1-247-891-00	CARBON	330K	5%	1/4W
R377	1-249-432-11	CARBON	18K	5%	1/4W
R378	1-249-432-11	CARBON	18K	5%	1/4W
R379	1-247-839-11	CARBON	2.2K	5%	1/4W
R380	1-247-839-11	CARBON	2.2K	5%	1/4W
R381	1-249-417-11	CARBON	1K	5%	1/4W F
R382	1-249-417-11	CARBON	1K	5%	1/4W F
R387	1-247-879-11	CARBON	100K	5%	1/4W
R388	1-247-879-11	CARBON	100K	5%	1/4W
R389	1-249-427-11	CARBON	6.8K	5%	1/4W F
R390	1-249-427-11	CARBON	6.8K	5%	1/4W F
R391	1-247-855-11	CARBON	10K	5%	1/4W

MAIN MOTOR MOTOR (6P) (S)

Ref. No.	Part No.	Description			Remarks
R392	1-247-855-11	CARBON	10K	5%	1/4W
R395	1-249-417-11	CARBON	1K	5%	1/4W F
R396	1-249-417-11	CARBON	1K	5%	1/4W F
R399	1-247-839-11	CARBON	2.2K	5%	1/4W
R401	1-247-807-11	CARBON	100	5%	1/4W
R402	1-247-807-11	CARBON	100	5%	1/4W
R403	1-247-827-11	CARBON	680	5%	1/4W
R405	1-215-863-11	METAL OXIDE	100	5%	1W F
R406	1-249-418-11	CARBON	1.2K	5%	1/4W F
R408	1-249-417-11	CARBON	1K	5%	1/4W F
R409	1-215-863-11	METAL OXIDE	100	5%	1W F
R410	1-247-839-11	CARBON	2.2K	5%	1/4W
R412	1-215-863-11	METAL OXIDE	100	5%	1W F
R414	1-247-903-00	CARBON	1M	5%	1/4W
R416	1-247-903-00	CARBON	1M	5%	1/4W
R424	1-249-417-11	CARBON	1K	5%	1/4W F
R425	1-249-417-11	CARBON	1K	5%	1/4W F
R426	1-247-847-11	CARBON	4.7K	5%	1/4W
R427	1-247-855-11	CARBON	10K	5%	1/4W
R440	1-247-708-11	CARBON	470	5%	1/4W F
R441	1-247-708-11	CARBON	470	5%	1/4W F
R442	1-247-855-11	CARBON	10K	5%	1/4W
R443	1-247-855-11	CARBON	10K	5%	1/4W
R444	1-249-393-11	CARBON	10	5%	1/4W F
R470	1-247-879-11	CARBON	100K	5%	1/4W
R471	1-247-903-00	CARBON	1M	5%	1/4W
R472	1-249-417-11	CARBON	1K	5%	1/4W F
R473	1-247-863-11	CARBON	22K	5%	1/4W
R474	1-247-863-11	CARBON	22K	5%	1/4W
R475	1-247-879-11	CARBON	100K	5%	1/4W
R476	1-247-889-00	CARBON	270K	5%	1/4W
R122A	1-249-427-11	CARBON	6.8K	5%	1/4W F
R205A	1-249-409-11	CARBON	220	5%	1/4W F
R206A	1-249-409-11	CARBON	220	5%	1/4W F
R240A	1-247-855-11	CARBON	10K	5%	1/4W
R307A	1-249-417-11	CARBON	1K	5%	1/4W F
R308A	1-249-417-11	CARBON	1K	5%	1/4W F
R3100	1-247-839-11	CARBON	2.2K	5%	1/4W
R3101	1-247-839-11	CARBON	2.2K	5%	1/4W
R3108	1-249-417-11	CARBON	1K	5%	1/4W F
R3109	1-249-417-11	CARBON	1K	5%	1/4W F
R3110	1-247-879-11	CARBON	100K	5%	1/4W
R3111	1-247-879-11	CARBON	100K	5%	1/4W
R3112	1-247-855-11	CARBON	10K	5%	1/4W
R3113	1-247-843-11	CARBON	3.3K	5%	1/4W
R3114	1-247-855-11	CARBON	10K	5%	1/4W
R3115	1-247-855-11	CARBON	10K	5%	1/4W
R3116	1-247-879-11	CARBON	100K	5%	1/4W
R3117	1-247-879-11	CARBON	100K	5%	1/4W
R3118	1-249-417-11	CARBON	1K	5%	1/4W F
R3119	1-249-417-11	CARBON	1K	5%	1/4W F
R3121	1-247-879-11	CARBON	100K	5%	1/4W
R3122	1-249-416-11	CARBON	820	5%	1/4W F
R3123	1-247-855-11	CARBON	10K	5%	1/4W
R3124	1-249-417-11	CARBON	1K	5%	1/4W F
R3125	1-247-879-11	CARBON	100K	5%	1/4W
R3128	1-247-839-11	CARBON	2.2K	5%	1/4W
R3129	1-247-839-11	CARBON	2.2K	5%	1/4W
R3132	1-247-879-11	CARBON	100K	5%	1/4W
R3133	1-247-879-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R3134	1-247-855-11	CARBON	10K	5%	1/4W
R3135	1-247-855-11	CARBON	10K	5%	1/4W
R3136	1-247-863-11	CARBON	22K	5%	1/4W
R3137	1-247-847-11	CARBON	4.7K	5%	1/4W
R3138	1-247-839-11	CARBON	2.2K	5%	1/4W
R3139	1-247-839-11	CARBON	2.2K	5%	1/4W
R3140	1-247-863-11	CARBON	22K	5%	1/4W
R403A	1-215-857-11	METAL OXIDE	10	5%	1W F
R427A	1-247-855-11	CARBON	10K	5%	1/4W
R476A	1-247-835-11	CARBON	1.5K	5%	1/4W
R3138A	1-247-855-11	CARBON	10K	5%	1/4W
		< RELAY >			
RL401	1-515-921-11	RELAY (12V)			
RL402	1-515-921-11	RELAY (12V)			
		< ADJUSTABLE RESISTOR >			
SRF101	1-238-601-11	RES, ADJ, CARBON, 22K			
		< TRANSFORMER >			
T102	1-429-554-11	TRANSFORMER, AM IFT			
		< TRIMMER >			
TC101	1-141-304-21	CAP, TRIMMER	10PF		
		< VIBRATOR >			
X101	1-579-585-11	VIBRATOR, CRYSTAL 7.2MHz			
**********					
	1-674-792-11	MOTOR BOARD			
		**********			
		< CAPACITOR >			
C01	1-124-259-11	ELECT	4.7uF	20%	50V
C082	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN06	1-568-824-11	SOCKET, CONNECTOR 5P			
**********					
*	1-639-678-12	MOTOR (6P)(S) BOARD			
		**********			
CN1	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< MOTOR >			
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)			
M102	X-2625-769-1	MOTOR ASSY (SLED)			
		< RESISTOR >			
R710A	1-249-417-11	CARBON	1K	5%	1/4W F
		< SWITCH >			
S1	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					

Ref. No.	Part No.	Description			Remarks
	1-674-794-11	PHOTO SOCKET BOARD			
		**********			
		< CAPACITOR >			
C710A	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN703	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< PHOTO INTERRUPTER >			
PH701	8-749-923-04	IC TOTX178A			
**********					
	1-675-353-11	SENSOR BOARD			
		**********			
		< CAPACITOR >			
C644	1-126-964-11	ELECT	10uF	20%	50V
		< IC >			
RM601	8-749-013-84	IC SPS-447-1			
**********					
	1-674-788-11	SW (A) BOARD			
		**********			
		< SWITCH >			
S04	1-771-169-11	SWITCH (TURN TABLE OPERATION DET)			
**********					
	1-674-789-11	SW (B) BOARD			
		**********			
		< SWITCH >			
S03	1-771-169-11	SWITCH (TURN TABLE POSITION DET)			
**********					
	1-674-790-11	SW (C) BOARD			
		**********			
		< SWITCH >			
S02	1-571-300-21	SWITCH, ROTARY (OPEN/CLOSE DET)			
**********					
	1-674-791-11	SW (D) BOARD			
		**********			
		< SWITCH >			
S01	1-571-300-21	SWITCH, ROTARY (OPTICAL PICK-UP DET)			
**********					

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
4	1-763-410-11	FAN, DC	
⚠13	1-551-506-99	CORD, POWER (GRX40AV:MX)	
⚠13	1-555-795-00	CORD, POWER (GRX40AV:SA,RXD6AV)	
⚠13	1-696-966-11	CORD, POWER (GRX40AV:AUS)	
71	1-769-273-11	WIRE (FLAT TYPE) (22 CORE)	
72	1-783-579-11	WIRE (FLAT TYPE) (16 CORE)	
73	1-772-164-11	DECK, MECH	
108	1-675-355-11	H/P BOARD	
201	1-769-856-11	WIRE (FLAT TYPE) (5 CORE)	
260	1-783-740-11	WIRE (FLAT TYPE)	
⚠261	8-820-054-03	OPTICAL PICK-UP KSM-213ECM/C2NP	
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)	
M102	X-2625-769-1	MOTOR ASSY (SLED)	
M103	X-4948-765-1	MOTOR ASSY (TURN TABLE)	
M104	X-4948-766-1	MOTOR ASSY (A) (TRAY)	
⚠T001	1-435-132-11	TRANSFORMER, POWER (RXD6AV)	
⚠T001	1-435-133-11	TRANSFORMER, POWER (GRX40AV:MX)	
⚠T001	1-435-134-11	TRANSFORMER, POWER (GRX40AV:AUS,SA)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-106-19	SCREW +P 2 × 10 TYPE2 SLIT	
#2	7-685-902-21	SCREW +PTPWH 2.6 × 8 (TYPE2)	
#3	7-624-105-04	STOP RING 2.3, TYPE -E	
#4	7-685-546-04	SCREW +B 3 × 5	
#5	7-685-131-19	SCREW +P 2.6 × 4 TYPE2 SLIT	
#6	7-685-139-29	SCREW, TAPPING (M2.6 × 20)	
#7	7-685-645-79	SCREW +BVTP 3 × 6 TYPE2 TT(B)	
#8	7-685-138-19	SCREW +BTP 2.6 × 16 TYPE2 N-2	
#9	7-624-118-01	RING, RETAINING E-2.5	
#10	7-685-903-21	SCREW +PTPWH 3 × 8 (TYPE2)	
#11	7-685-648-79	SCREW +BVTP 3 × 12 TYPE2 N-S	
#12	7-682-904-11	SCREW +PWH 4 × 8	
#13	7-685-649-79	SCREW +BVTP 3 × 14 TYPE2 N-S	
#14	7-685-660-79	SCREW +PTPWH 4 × 10 TYPE 2	
#15	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 TT(B)	
#16	7-685-246-19	SCREW +KTP 3 × 8 TYPE2 NON-SLIT	
#17	7-685-647-79	SCREW, TAPPING	
#18	7-685-903-31	SCREW +PTPWH 3 × 10 (TYPE2)	
#19	7-685-883-01	SCREW +BVTT 4 × 12 (S)	
#20	7-685-661-79	SCREW +P 4 × 12 TYPE2 NON-SLIT	
#21	7-685-153-19	SCREW +P 3 × 30 TYPE2 NON-SLIT	
#22	7-624-105-04	STOP RING 2.3, TYPE -E	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-928-991-11

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Home Audio Company

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